

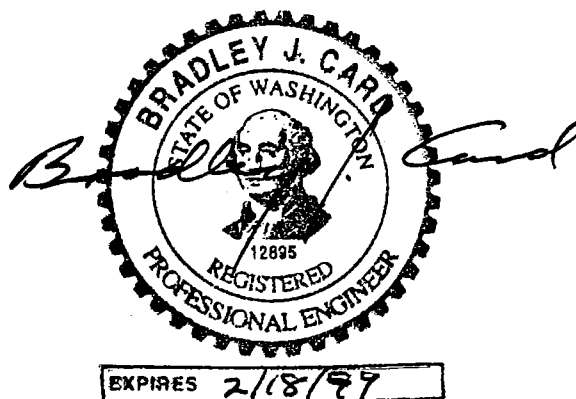
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SITE ASSESSMENT ENGINEERING REPORT
UNDERGROUND STORAGE TANK REMOVAL

SUNFAIR CHEVROLET, INC.

1600 Terrace Heights Drive

Yakima, Washington

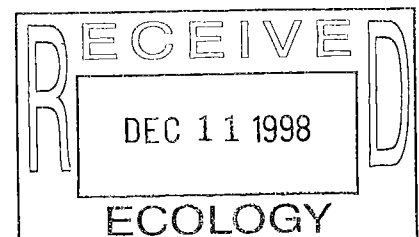


December 1998

Job No. 98093

Prepared by

PLSA ENGINEERING & SURVEYING
1120 West Lincoln Avenue
Yakima, WA 98902
(509) 575-6990




SUMMARY
SITE ASSESSMENT ENGINEERING REPORT
on
UNDERGROUND STORAGE TANK REMOVAL
for

SUNFAIR CHEVROLET, INC.
1600 EAST TERRACE HEIGHTS DRIVE
YAKIMA, WASHINGTON

Sunfair Chevrolet Inc. removed five, steel, underground storage tanks from a series of tank basins at their auto dealership and repair facility at 1600 East Terrace Heights Drive, Yakima, Washington. Four tanks were 1,000 gallons capacity, and were used for storing new motor oil, new automatic transmission fluid, waste motor oil, and diesel, respectively. The diesel tank, which may have been used also for gasoline, had been closed and was empty. The fifth tank was 3,000 gallons capacity and was used for storing waste motor oil. Location and numerical designation of the tanks is depicted on Figure 1.

Inspection of all tanks upon removal found them to be sound, in good condition, and nearly free of tuberculations. None of the tank basins extended down to the ground water table, approximately ten feet below the ground surface.

Tank No. 3 was bedded in processed rock resembling 5/8 inch minus crushed rock. No other tank basin contained this type of bedding. Soil samples collected from this crushed rock showed analytical evidence of petroleum contamination. Subsequent excavation to remove the petroleum contaminated crushed rock (PCS) found the contamination to extend to below the ground water table. The excavation was dewatered by pumping ground water through a coalescing plate oil/water separator and remaining PCS was removed. A groundwater sample from water flowing into the excavation was collected and was found to be free of petroleum contamination. Excavated PCS was stored on an adjacent Sunfair Chevrolet property for remediation by land farming.

Tank Basin No. 3 was located adjacent to a concrete slab access apron at the auto entrance to the shop. During the course of excavating PCS from Tank Basin No. 3, a small area of stained soil located above the water table was observed to extend under this slab. Sampling and laboratory analysis found this soil to contain heavy oil petroleum contamination. Lack of petroleum in groundwater and isolation of this soil contamination by the concrete slab above minimizes environmental threat of this residual contamination to insignificance. It was decided to not disrupt Sunfair operations by disturbing the concrete entrance slab and to leave this residual PCS in place. 

SITE ASSESSMENT ENGINEERING REPORT
on
UNDERGROUND STORAGE TANK REMOVAL
for
SUNFAIR CHEVROLET, INC.
1600 East Terrace Heights Drive
Yakima, Washington

INTRODUCTION

Effort to comply with current laws and regulations relating to underground storage tanks prompted Sunfair Chevrolet, Inc. to remove five steel, underground storage tanks from the Sunfair Chevrolet dealership and auto repair premises at 1600 East Terrace Heights Drive, Yakima, Washington. Four tanks were 1,000 gallons capacity and had been used for storing new motor oil, new automatic transmission fluid, waste motor oil, and diesel or gasoline, respectively. The fifth tank was 3,000 gallons capacity and had been used for storing waste motor oil. Tank basin location is in the NW 1/4, NW 1/4, SEC 20, TWP 13, R19-EWM. See Figure 1.

This report summarizes site conditions and the results of laboratory testing of representative soil samples for presence of VOC, SVOC, PCB, metals, Total Petroleum Hydrocarbons (TPH), BTEX, and lead, as appropriate. Engineers from PLSA Engineering and Surveying, experienced with local soil conditions recently monitored removal of the underground storage tanks (UST's), and collected soil and water samples from the tank basins as appropriate.

Tank removal was conducted by Ken Leingang Excavating, Inc.

The owner's representative and contact person for this project follows:

Mr. Robert Hall, President
Sunfair Chevrolet, Inc.
1600 East Terrace Heights Drive
Yakima, Washington 98901
phone (503) 248 7600

SITE BACKGROUND

The property was first developed as farmland and used as pasture. As Yakima, grew small business developed along Terrace Heights Drive which included a coal and wood yard which occupied a portion of the existing premises. In 1978, Sunfair Chevrolet constructed a large, modern, auto dealership and service facility. At the time of construction, it was customary to

install underground storage tanks to contain the various automotive fluids which were used in quantity. Underground storage tank regulations have resulted in removal of these tanks and replacement by above ground storage facilities.

SURFACE CONDITIONS

Asphaltic concrete paving covered all tank basins.

SUB-SURFACE CONDITIONS

The tanks were bedded in crushed rock or native soil in tank basins excavated in cobbles, gravel, and sand(USCS classification GP). Groundwater was encountered approximately 10 feet below the surface. Tanks did not extend into groundwater.

From general topography, it appears that the groundwater hydraulic gradient is to the southeast towards the Yakima River located approximately 1/2 mile away.

SAMPLING PLAN

Representative soil samples were collected from the bottom of the tank basin. Sample containers supplied by the analytical laboratory were clean glass with Teflon lined, screwed caps. Sampling equipment was cleaned with non-petroleum based detergent between samplings.

A ground water sample was collected from Tank Basin No. 3, which was the only location in which significant contamination was identified. *grab*

Sound Analytical Laboratories, WDOE accreditation C027, in Fife, Washington was been selected to perform the analyses. Quality control procedures are on file at Sound Analytical.

All samples were stored under refrigeration and shipped to the laboratory by overnight express in a refrigerated, insulated container. Copies of Chain of Custody are in Appendix II.

CONTAMINANT CHARACTERIZATION

Soil excavated from the tank basin was evaluated for petroleum contamination using visual and olfactory means.

After the tanks were removed, soil samples were collected from within the tank basins. These samples were submitted to a laboratory for analysis and characterization by VOC, SVOC, PCB, metals, WTPH-HCID, BTEX, and lead as appropriate. Laboratory analysis confirmed the presence of heavy oil contamination in soil from Tank Basin No. 3. Tank Basin No. 5 soil was found to have a concentration of methylene chloride averaging 792 µg/kg which is in excess of the 500 µg/kg action level found in WAC 173-340-740. No source for methylene chloride could be identified. No other analates exceeding WAC 173-340-740 action limits were found in final samples from any of the other tank basins. See table in Figure 1, and Appendix I, Analytical Results. *Paint Shop?*

CLEANUP

A track mounted excavator was used to removed petroleum contaminated soil from Tank Basin No. 3 until no visual indication of oil contamination remained. Soil samples were then collected from the bottom of the tank basin at the edges. These samples were submitted to Sound analytical for analysis for WTPH-HCID. All final samples analyzed were within statistical diesel contamination limits except for one sample collected (Sample No. 6, Figure 1) from the east side of the basin at the edge of the concrete access apron slab. ✓

Methylene chloride readily volatilizes, so Tank Basin No. 5 was left open for several weeks to allow the contamination to reduce by evaporation into the atmosphere.

CONCLUSIONS

Tanks appeared to be in good condition with no turburculations or evidence of other outside corrosion. Petroleum release appeared to be the result of backfilling Tank Basin No. 3 with previously petroleum contaminated soil. Piping was located within the tank basins and extended into the Sunfair building and did not appear to have been leaking. Tanks had earlier been air tested and found to be sound. From this it is concluded the tanks and piping were tight and not leaking while underground and in use.

Ground water flowing into the Tank Basin No. 3 excavation was sampled and found not to be contaminated with petroleum. *grab*

Residual petroleum contamination remains under the concrete access apron slab. This contamination does not extend to the water table and is isolated by the concrete slab above. All other soil samples from Tank Basin No. 3 are statistically within WAC 173-340-740 action limits.

Methylene chloride concentration in Tank Basin No. 5 soil was originally approximately 1 ½ times the regulatory level. Allowing exposure to the atmosphere to permit volatilization would reduce this concentration to nearer the desired level. ✓

RECOMMENDATIONS

No further action is warranted.

SITE CLOSURE

The tank basin will be backfilled with clean fill and the surface restored to its former condition.

TANK AND PIPING DISPOSAL

Tanks were cleaned by Westpac, a certified service agency, and disposed of as scrap. Piping was within the tank basin and was disposed of as scrap.

SITE CHECK/SITE ASSESSMENT CHECKLIST

A completed Site Check/Site Assessment Checklist form may be found in Appendix III.

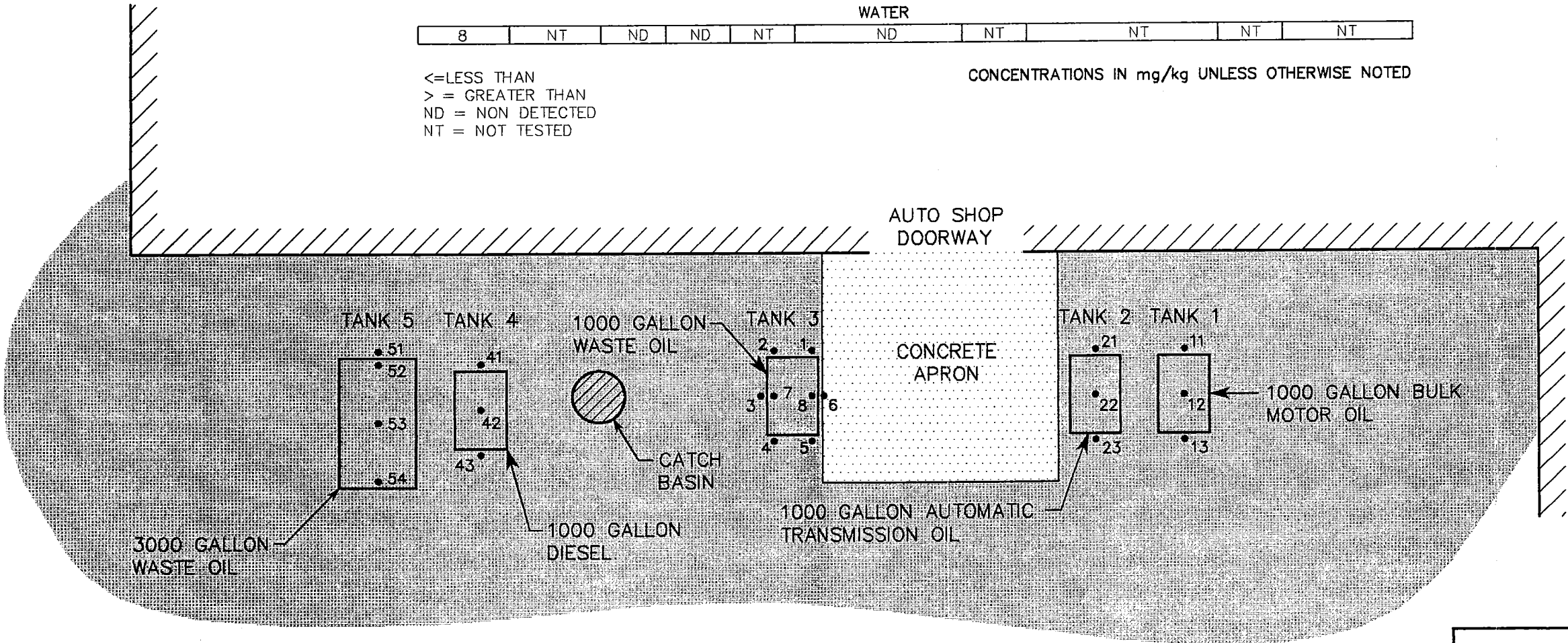


SUMMARY OF FINAL ANALYTICAL RESULTS
SOIL SUNFAIR CHEVROLET

SAMPLE ID	WTPH-HCID OR EXTENSION			PCB	SEMIVOLATILE ug/kg	VOC	METHYLENE CHLORIDE ug/kg	BTEX	METALS/LEAD mg/kg
	GASOLINE	DIESEL	OIL						
11	<	<	<	NT	NT	NT	NT	NT	NT
12	<	<	<	NT	NT	NT	NT	NT	NT
13	<	<	<	NT	NT	NT	NT	NT	NT
21	<	<	<	NT	NT	NT	NT	NT	NT
22	<	<	180	NT	NT	NT	NT	NT	NT
23	<	68	290	NT	NT	NT	NT	NT	NT
41	<	<	<	NT	NT	NT	NT	ND	ND
42	<	<	<	NT	NT	NT	NT	ND	ND
43	<	<	<	NT	NT	NT	NT	ND	46
51	<	<	<	ND	ND		820	NT	ND
52	<	<	<	ND	ND		770	NT	ND
53	<	<	<	ND	ND		820	NT	0.077 Hg
54	<	<	<	ND	ND		760	NT	ND
31	NT	NT	NT	ND	ND		NA	NT	ND
32	NT	NT	NT	ND	ND		NA	NT	ND
33	NT	NT	NT	ND	130 Benzoperylene		NA	NT	ND
7	NT	ND	150	NT	ND	NT	NT	NT	NT
6	NT	830	3600	NT	ND	NT	NT	NT	NT
5	NT	ND	59	NT	ND	NT	NT	NT	NT
4	NT	ND	57	NT	ND	NT	NT	NT	NT
3	NT	40	220	NT	ND	NT	NT	NT	NT
2	NT	27	170	NT	ND	NT	NT	NT	NT
1	NT	25	120	NT	ND	NT	NT	NT	NT
WATER									
8	NT	ND	ND	NT	ND	NT	NT	NT	NT

<=LESS THAN
> = GREATER THAN
ND = NON DETECTED
NT = NOT TESTED

CONCENTRATIONS IN mg/kg UNLESS OTHERWISE NOTED



LEGEND

•x FINAL SAMPLE LOCATION

FIGURE 1

APPENDIX I
ANALYTICAL RESULTS

APPENDIX I

ANALYTICAL RESULTS

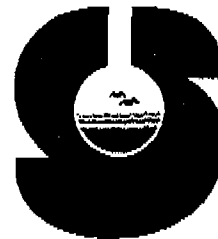
Sound Analytical Services, Inc.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy East • Tacoma, WA 98424

(253) 922-2310 • FAX (253) 922-5047

e-mail: SoundL@aol.com



FAX TRANSMITTAL

Contact, Company, and Address:

Date: November 23, 1998

Doug D'Hondt

PLSA Engineering

1120 West Lincoln Avenue

Yakima, WA 98902

Phone Number: (509) 575-6990

Fax Number: (509) 575-6993

Pages sent by fax: 17

Hard copy to follow: Yes

From: Jamie Tucker

Message:

SAS Work Order :77209

Project :98093

Date Received :11/19/98

Project Manager :Katie Downie

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	8
Lab ID:	77209-08
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/23/98
% Solids	-

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	65		50	150

Analyte	Result (mg/L)	PQL	Flags
#2 Diesel	ND	0.24	
Motor Oil	ND	0.49	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	6
Lab ID:	77209-06
Date Received:	11/19/98
Date Prepared:	11/19/98
Date Analyzed:	11/23/98
% Solids	94.9

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	77		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
#2 Diesel	830	210	X1
Motor Oil	3600	410	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	5
Lab ID:	77209-05
Date Received:	11/19/98
Date Prepared:	11/19/98
Date Analyzed:	11/20/98
% Solids	95.01

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	76		50	150

Sample results are on a dry weight basis.

Analyte	Result	PQL	Flags
	(mg/kg)		
#2 Diesel	ND	20	
Motor Oil	59	40	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	4
Lab ID:	77209-04
Date Received:	11/19/98
Date Prepared:	11/19/98
Date Analyzed:	11/20/98
% Solids	95.85

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	83		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
#2 Diesel	ND	19	
Motor Oil	57	38	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	3
Lab ID:	77209-03
Date Received:	11/19/98
Date Prepared:	11/19/98
Date Analyzed:	11/20/98
% Solids	93.45

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	69		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
#2 Diesel	40	26	X1
Motor Oil	220	52	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	2
Lab ID:	77209-02
Date Received:	11/19/98
Date Prepared:	11/19/98
Date Analyzed:	11/20/98
% Solids	92.3

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	61		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
#2 Diesel	27	26	X1
Motor Oil	170	51	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	1
Lab ID:	77209-01
Date Received:	11/19/98
Date Prepared:	11/19/98
Date Analyzed:	11/20/98
% Solids	95.14

Diesel and Motor Oil by NWTPH-Dx Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	84		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
#2 Diesel	25	21	X1
Motor Oil	120	41	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	8
Lab ID:	77209-08
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	-

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	54		35	114
2 - Fluorobiphenyl	86		43	116
p - Terphenyl - d14	83		33	141

Analyte	Result (ug/L)	PQL	Flags
Benzo(a)anthracene	ND	0.099	
Chrysene	ND	0.099	
Benzo(b)fluoranthene	ND	0.099	
Benzo(k)fluoranthene	ND	0.099	
Benzo(a)pyrene	ND	0.099	
Indeno(1,2,3-cd)pyrene	ND	0.099	
Dibenz(a,h)anthracene	ND	0.099	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	7
Lab ID:	77209-07
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	85.5

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	57		23	120
2 - Fluorobiphenyl	77		30	115
p - Terphenyl - d14	81		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	ND	21	
Chrysene	ND	21	
Benzo(b)fluoranthene	ND	21	
Benzo(k)fluoranthene	ND	21	
Benzo(a)pyrene	ND	21	
Indeno(1,2,3-cd)pyrene	ND	21	
Dibenz(a,h)anthracene	ND	21	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	6
Lab ID:	77209-06
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	94.9

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	64		23	120
2 - Fluorobiphenyl	88		30	115
p - Terphenyl - d14	77		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	28	19	
Chrysene	ND	19	
Benzo(b)fluoranthene	ND	19	
Benzo(k)fluoranthene	ND	19	
Benzo(a)pyrene	ND	19	
Indeno(1,2,3-cd)pyrene	ND	19	
Dibenz(a,h)anthracene	ND	19	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	5
Lab ID:	77209-05
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	95.01

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	59		23	120
2 - Fluorobiphenyl	79		30	115
p - Terphenyl - d14	85		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	ND	19	
Chrysene	ND	19	
Benzo(b)fluoranthene	ND	19	
Benzo(k)fluoranthene	ND	19	
Benzo(a)pyrene	ND	19	
Indeno(1,2,3-cd)pyrene	ND	19	
Dibenz(a,h)anthracene	ND	19	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	4
Lab ID:	77209-04
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	95.85

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	59		23	120
2 - Fluorobiphenyl	80		30	115
p - Terphenyl - d14	86		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	ND	18	
Chrysene	ND	18	
Benzo(b)fluoranthene	ND	18	
Benzo(k)fluoranthene	ND	18	
Benzo(a)pyrene	ND	18	
Indeno(1,2,3-cd)pyrene	ND	18	
Dibenz(a,h)anthracene	ND	18	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	3
Lab ID:	77209-03
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	93.45

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	43		23	120
2 - Fluorobiphenyl	73		30	115
p - Terphenyl - d14	84		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	ND	18	
Chrysene	ND	18	
Benzo(b)fluoranthene	ND	18	
Benzo(k)fluoranthene	ND	18	
Benzo(a)pyrene	ND	18	
Indeno(1,2,3-cd)pyrene	ND	18	
Dibenz(a,h)anthracene	ND	18	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	2
Lab ID:	77209-02
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	92.3

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	55		23	120
2 - Fluorobiphenyl	76		30	115
p - Terphenyl - d14	82		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	ND	20	
Chrysene	ND	20	
Benzo(b)fluoranthene	ND	20	
Benzo(k)fluoranthene	ND	20	
Benzo(a)pyrene	ND	20	
Indeno(1,2,3-cd)pyrene	ND	20	
Dibenz(a,h)anthracene	ND	20	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	1
Lab ID:	77209-01
Date Received:	11/19/98
Date Prepared:	11/20/98
Date Analyzed:	11/20/98
% Solids	95.14

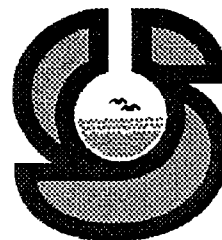
Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	52		23	120
2 - Fluorobiphenyl	82		30	115
p - Terphenyl - d14	79		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Benzo(a)anthracene	ND	18	
Chrysene	ND	18	
Benzo(b)fluoranthene	ND	18	
Benzo(k)fluoranthene	ND	18	
Benzo(a)pyrene	ND	18	
Indeno(1,2,3-cd)pyrene	ND	18	
Dibenz(a,h)anthracene	ND	18	

Sound Analytical Services, Inc.
ANALYTICAL & ENVIRONMENTAL CHEMISTS
4813 Pacific Hwy East • Tacoma, WA 98424
(253) 922-2310 • FAX (253) 922-5047
e-mail: SoundL@aol.com



TRANSMITTAL MEMORANDUM

DATE: November 2, 1998

TO: Brad Card
PLSA Engineering
1120 West Lincoln Avenue
Yakima, WA 98902

PROJECT: 98093

REPORT NUMBER: 76561

Enclosed are the test results for sixteen samples received at Sound Analytical Services on October 26, 1998.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

A handwritten signature in cursive script that reads "Katie Downie".

Katie Downie
Project Manager

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.86
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	98		79	122
Toluene-d8	99		87	109
Bromofluorobenzene	96		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	410	29	
Bromomethane	ND	410	140	
Vinyl Chloride	ND	410	190	
Chloroethane	ND	410	180	
Trichlorofluoromethane	ND	410	150	
1,1-Dichloroethene	ND	410	72	
Acetone	ND	410	140	
Methylene Chloride	820	410	68	B1 N
trans-1,2-Dichloroethene	ND	410	240	
1,1-Dichloroethane	ND	410	35	
cis-1,2-Dichloroethene	ND	410	170	
2-Butanone	ND	410	110	
Chloroform	ND	410	170	
1,1,1-Trichloroethane	ND	410	120	
Carbon Tetrachloride	ND	410	140	
Benzene	ND	410	150	
1,2-Dichloroethane	ND	410	110	
Trichloroethene	ND	410	99	
1,2-Dichloropropane	ND	410	96	
Bromodichloromethane	ND	410	110	
2-Chloroethyl Vinyl Ether	ND	2000	300	
cis-1,3-Dichloropropene	ND	410	81	
Toluene	ND	410	110	
4-Methyl-2-pentanone	ND	410	85	
trans-1,3-Dichloropropene	ND	410	61	
1,1,2-Trichloroethane	ND	410	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-07 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	410	110
Dibromochloromethane	ND	410	120
2-Hexanone	ND	410	47
Chlorobenzene	ND	410	110
Ethylbenzene	ND	410	120
m,p-Xylene	ND	810	250
o-Xylene	ND	410	120
Bromoform	ND	410	160
1,1,2,2-Tetrachloroethane	ND	410	98
1,3-Dichlorobenzene	ND	410	130
1,4-Dichlorobenzene	ND	410	140
1,2-Dichlorobenzene	ND	410	150

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	32
Lab ID:	76561-08
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.19
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	103		79	122
Toluene-d8	100		87	109
Bromofluorobenzene	97		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	400	28	
Bromomethane	ND	400	140	
Vinyl Chloride	ND	400	190	
Chloroethane	ND	400	180	
Trichlorofluoromethane	ND	400	150	
1,1-Dichloroethene	ND	400	70	
Acetone	ND	400	140	
Methylene Chloride	730	400	66	B1 N
trans-1,2-Dichloroethene	ND	400	230	
1,1-Dichloroethane	ND	400	34	
cis-1,2-Dichloroethene	ND	400	170	
2-Butanone	ND	400	110	
Chloroform	ND	400	160	
1,1,1-Trichloroethane	ND	400	110	
Carbon Tetrachloride	ND	400	130	
Benzene	ND	400	150	
1,2-Dichloroethane	ND	400	110	
Trichloroethene	ND	400	96	
1,2-Dichloropropane	ND	400	94	
Bromodichloromethane	ND	400	110	
2-Chloroethyl Vinyl Ether	ND	2000	300	
cis-1,3-Dichloropropene	ND	400	79	
Toluene	ND	400	110	
4-Methyl-2-pentanone	ND	400	83	
trans-1,3-Dichloropropene	ND	400	59	
1,1,2-Trichloroethane	ND	400	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-08 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	400	110
Dibromochloromethane	ND	400	120
2-Hexanone	ND	400	46
Chlorobenzene	ND	400	110
Ethylbenzene	ND	400	120
m,p-Xylene	ND	790	240
o-Xylene	ND	400	120
Bromoform	ND	400	150
1,1,2,2-Tetrachloroethane	ND	400	96
1,3-Dichlorobenzene	ND	400	120
1,4-Dichlorobenzene	ND	400	140
1,2-Dichlorobenzene	ND	400	140

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.36
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	100		79	122
Toluene-d8	100		87	109
Bromofluorobenzene	95		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	410	29	
Bromomethane	ND	410	140	
Vinyl Chloride	ND	410	200	
Chloroethane	ND	410	180	
Trichlorofluoromethane	ND	410	160	
1,1-Dichloroethene	ND	410	72	
Acetone	ND	410	140	
Methylene Chloride	790	410	68	B1 N
trans-1,2-Dichloroethene	ND	410	240	
1,1-Dichloroethane	ND	410	35	
cis-1,2-Dichloroethene	ND	410	170	
2-Butanone	ND	410	110	
Chloroform	ND	410	170	
1,1,1-Trichloroethane	ND	410	120	
Carbon Tetrachloride	ND	410	140	
Benzene	ND	410	150	
1,2-Dichloroethane	ND	410	110	
Trichloroethene	ND	410	99	
1,2-Dichloropropane	ND	410	97	
Bromodichloromethane	ND	410	110	
2-Chloroethyl Vinyl Ether	ND	2000	310	
cis-1,3-Dichloropropene	ND	410	81	
Toluene	ND	410	110	
4-Methyl-2-pentanone	ND	410	85	
trans-1,3-Dichloropropene	ND	410	61	
1,1,2-Trichloroethane	ND	410	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-09 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	410	110
Dibromochloromethane	ND	410	120
2-Hexanone	ND	410	47
Chlorobenzene	ND	410	110
Ethylbenzene	ND	410	130
m,p-Xylene	ND	820	250
o-Xylene	ND	410	120
Bromoform	ND	410	160
1,1,2,2-Tetrachloroethane	ND	410	99
1,3-Dichlorobenzene	ND	410	130
1,4-Dichlorobenzene	ND	410	140
1,2-Dichlorobenzene	ND	410	150

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	93.26
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	101		79	122
Toluene-d8	99		87	109
Bromofluorobenzene	95		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	410	29	
Bromomethane	ND	410	140	
Vinyl Chloride	ND	410	200	
Chloroethane	ND	410	180	
Trichlorofluoromethane	ND	410	160	
1,1-Dichloroethene	ND	410	72	
Acetone	ND	410	140	
Methylene Chloride	820	410	68	B1 N
trans-1,2-Dichloroethene	ND	410	240	
1,1-Dichloroethane	ND	410	35	
cis-1,2-Dichloroethene	ND	410	170	
2-Butanone	ND	410	110	
Chloroform	ND	410	170	
1,1,1-Trichloroethane	ND	410	120	
Carbon Tetrachloride	ND	410	140	
Benzene	ND	410	150	
1,2-Dichloroethane	ND	410	110	
Trichloroethene	ND	410	99	
1,2-Dichloropropane	ND	410	97	
Bromodichloromethane	ND	410	110	
2-Chloroethyl Vinyl Ether	ND	2000	310	
cis-1,3-Dichloropropene	ND	410	81	
Toluene	ND	410	110	
4-Methyl-2-pentanone	ND	410	85	
trans-1,3-Dichloropropene	ND	410	61	
1,1,2-Trichloroethane	ND	410	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-13 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	410	110
Dibromochloromethane	ND	410	120
2-Hexanone	ND	410	47
Chlorobenzene	ND	410	110
Ethylbenzene	ND	410	130
m,p-Xylene	ND	820	250
o-Xylene	ND	410	120
Bromoform	ND	410	160
1,1,2,2-Tetrachloroethane	ND	410	99
1,3-Dichlorobenzene	ND	410	130
1,4-Dichlorobenzene	ND	410	140
1,2-Dichlorobenzene	ND	410	150

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.3
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	103		79	122
Toluene-d8	98		87	109
Bromofluorobenzene	96		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	410	29	
Bromomethane	ND	410	140	
Vinyl Chloride	ND	410	200	
Chloroethane	ND	410	180	
Trichlorofluoromethane	ND	410	160	
1,1-Dichloroethene	ND	410	73	
Acetone	ND	410	140	
Methylene Chloride	770	410	69	B1 N
trans-1,2-Dichloroethene	ND	410	240	
1,1-Dichloroethane	ND	410	35	
cis-1,2-Dichloroethene	ND	410	170	
2-Butanone	ND	410	110	
Chloroform	ND	410	170	
1,1,1-Trichloroethane	ND	410	120	
Carbon Tetrachloride	ND	410	140	
Benzene	ND	410	150	
1,2-Dichloroethane	ND	410	110	
Trichloroethene	ND	410	100	
1,2-Dichloropropane	ND	410	98	
Bromodichloromethane	ND	410	120	
2-Chloroethyl Vinyl Ether	ND	2100	310	
cis-1,3-Dichloropropene	ND	410	82	
Toluene	ND	410	120	
4-Methyl-2-pentanone	ND	410	86	
trans-1,3-Dichloropropene	ND	410	62	
1,1,2-Trichloroethane	ND	410	110	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-14 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	410	110
Dibromochloromethane	ND	410	120
2-Hexanone	ND	410	48
Chlorobenzene	ND	410	120
Ethylbenzene	ND	410	130
m,p-Xylene	ND	830	250
o-Xylene	ND	410	120
Bromoform	ND	410	160
1,1,2,2-Tetrachloroethane	ND	410	100
1,3-Dichlorobenzene	ND	410	130
1,4-Dichlorobenzene	ND	410	140
1,2-Dichlorobenzene	ND	410	150

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	96.32
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	102		79	122
Toluene-d8	101		87	109
Bromofluorobenzene	95		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	410	29	
Bromomethane	ND	410	140	
Vinyl Chloride	ND	410	200	
Chloroethane	ND	410	180	
Trichlorofluoromethane	ND	410	160	
1,1-Dichloroethene	ND	410	72	
Acetone	ND	410	140	
Methylene Chloride	820	410	68	B1 N
trans-1,2-Dichloroethene	ND	410	240	
1,1-Dichloroethane	ND	410	35	
cis-1,2-Dichloroethene	ND	410	170	
2-Butanone	ND	410	110	
Chloroform	ND	410	170	
1,1,1-Trichloroethane	ND	410	120	
Carbon Tetrachloride	ND	410	140	
Benzene	ND	410	150	
1,2-Dichloroethane	ND	410	110	
Trichloroethene	ND	410	99	
1,2-Dichloropropane	ND	410	97	
Bromodichloromethane	ND	410	110	
2-Chloroethyl Vinyl Ether	ND	2100	310	
cis-1,3-Dichloropropene	ND	410	82	
Toluene	ND	410	120	
4-Methyl-2-pentanone	ND	410	85	
trans-1,3-Dichloropropene	ND	410	61	
1,1,2-Trichloroethane	ND	410	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-15 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	410	110
Dibromochloromethane	ND	410	120
2-Hexanone	ND	410	48
Chlorobenzene	ND	410	120
Ethylbenzene	ND	410	130
m,p-Xylene	ND	820	250
o-Xylene	ND	410	120
Bromoform	ND	410	160
1,1,2,2-Tetrachloroethane	ND	410	99
1,3-Dichlorobenzene	ND	410	130
1,4-Dichlorobenzene	ND	410	140
1,2-Dichlorobenzene	ND	410	150

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	92.84
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	103		79	122
Toluene-d8	99		87	109
Bromofluorobenzene	96		74	131

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	400	29	
Bromomethane	ND	400	140	
Vinyl Chloride	ND	400	190	
Chloroethane	ND	400	180	
Trichlorofluoromethane	ND	400	150	
1,1-Dichloroethene	ND	400	71	
Acetone	ND	400	140	
Methylene Chloride	760	400	67	B1 N
trans-1,2-Dichloroethene	ND	400	230	
1,1-Dichloroethane	ND	400	34	
cis-1,2-Dichloroethene	ND	400	170	
2-Butanone	ND	400	110	
Chloroform	ND	400	160	
1,1,1-Trichloroethane	ND	400	120	
Carbon Tetrachloride	ND	400	130	
Benzene	ND	400	150	
1,2-Dichloroethane	ND	400	110	
Trichloroethene	ND	400	98	
1,2-Dichloropropane	ND	400	95	
Bromodichloromethane	ND	400	110	
2-Chloroethyl Vinyl Ether	ND	2000	300	
cis-1,3-Dichloropropene	ND	400	80	
Toluene	ND	400	110	
4-Methyl-2-pentanone	ND	400	84	
trans-1,3-Dichloropropene	ND	400	60	
1,1,2-Trichloroethane	ND	400	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for 76561-16 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	400	110
Dibromochloromethane	ND	400	120
2-Hexanone	ND	400	47
Chlorobenzene	ND	400	110
Ethylbenzene	ND	400	120
m,p-Xylene	ND	810	250
o-Xylene	ND	400	120
Bromoform	ND	400	150
1,1,2,2-Tetrachloroethane	ND	400	97
1,3-Dichlorobenzene	ND	400	130
1,4-Dichlorobenzene	ND	400	140
1,2-Dichlorobenzene	ND	400	150

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	94.86

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	92		23	120
2 - Fluorobiphenyl	98		30	115
p - Terphenyl - d14	99		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	17	
2-Methylnaphthalene	ND	17	
2-Chloronaphthalene	ND	17	
Acenaphthylene	ND	17	
Acenaphthene	ND	17	
Fluorene	ND	17	
Phenanthrene	ND	17	
Anthracene	ND	17	
Fluoranthene	ND	17	
Pyrene	ND	17	
Benzo(a)anthracene	ND	17	
Chrysene	ND	17	
Benzo(b)fluoranthene	ND	17	
Benzo(k)fluoranthene	ND	17	
Benzo(a)pyrene	ND	17	
Indeno(1,2,3-cd)pyrene	ND	17	
Dibenz(a,h)anthracene	ND	17	
Benzo(g,h,i)perylene	ND	17	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	32
Lab ID:	76561-08
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.19

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	94		23	120
2 - Fluorobiphenyl	89		30	115
p - Terphenyl - d14	91		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	17	
2-Methylnaphthalene	ND	17	
2-Chloronaphthalene	ND	17	
Acenaphthylene	ND	17	
Acenaphthene	ND	17	
Fluorene	ND	17	
Phenanthrene	ND	17	
Anthracene	ND	17	
Fluoranthene	ND	17	
Pyrene	ND	17	
Benzo(a)anthracene	ND	17	
Chrysene	ND	17	
Benzo(b)fluoranthene	ND	17	
Benzo(k)fluoranthene	ND	17	
Benzo(a)pyrene	ND	17	
Indeno(1,2,3-cd)pyrene	ND	17	
Dibenz(a,h)anthracene	ND	17	
Benzo(g,h,i)perylene	ND	17	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.36

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	78		23	120
2 - Fluorobiphenyl	88		30	115
p - Terphenyl - d14	69		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	18	
2-Methylnaphthalene	ND	18	
2-Chloronaphthalene	ND	18	
Acenaphthylene	ND	18	
Acenaphthene	ND	18	
Fluorene	ND	18	
Phenanthrene	ND	18	
Anthracene	ND	18	
Fluoranthene	ND	18	
Pyrene	ND	18	
Benzo(a)anthracene	ND	18	
Chrysene	ND	18	
Benzo(b)fluoranthene	ND	18	
Benzo(k)fluoranthene	ND	18	
Benzo(a)pyrene	ND	18	
Indeno(1,2,3-cd)pyrene	ND	18	
Dibenz(a,h)anthracene	ND	18	
Benzo(g,h,i)perylene	130	18	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	93.26

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	91		23	120
2 - Fluorobiphenyl	95		30	115
p - Terphenyl - d14	105		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	19	
2-Methylnaphthalene	ND	19	
2-Chloronaphthalene	ND	19	
Acenaphthylene	ND	19	
Acenaphthene	ND	19	
Fluorene	ND	19	
Phenanthrene	ND	19	
Anthracene	ND	19	
Fluoranthene	ND	19	
Pyrene	ND	19	
Benzo(a)anthracene	ND	19	
Chrysene	ND	19	
Benzo(b)fluoranthene	ND	19	
Benzo(k)fluoranthene	ND	19	
Benzo(a)pyrene	ND	19	
Indeno(1,2,3-cd)pyrene	ND	19	
Dibenz(a,h)anthracene	ND	19	
Benzo(g,h,i)perylene	ND	19	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.3

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	84		23	120
2 - Fluorobiphenyl	73		30	115
p - Terphenyl - d14	92		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	17	
2-Methylnaphthalene	ND	17	
2-Chloronaphthalene	ND	17	
Acenaphthylene	ND	17	
Acenaphthene	ND	17	
Fluorene	ND	17	
Phenanthrene	ND	17	
Anthracene	ND	17	
Fluoranthene	ND	17	
Pyrene	ND	17	
Benzo(a)anthracene	ND	17	
Chrysene	ND	17	
Benzo(b)fluoranthene	ND	17	
Benzo(k)fluoranthene	ND	17	
Benzo(a)pyrene	ND	17	
Indeno(1,2,3-cd)pyrene	ND	17	
Dibenz(a,h)anthracene	ND	17	
Benzo(g,h,i)perylene	ND	17	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	96.32

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	88		23	120
2 - Fluorobiphenyl	83		30	115
p - Terphenyl - d14	91		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	18	
2-Methylnaphthalene	ND	18	
2-Chloronaphthalene	ND	18	
Acenaphthylene	ND	18	
Acenaphthene	ND	18	
Fluorene	ND	18	
Phenanthrene	ND	18	
Anthracene	ND	18	
Fluoranthene	ND	18	
Pyrene	ND	18	
Benzo(a)anthracene	ND	18	
Chrysene	ND	18	
Benzo(b)fluoranthene	ND	18	
Benzo(k)fluoranthene	ND	18	
Benzo(a)pyrene	ND	18	
Indeno(1,2,3-cd)pyrene	ND	18	
Dibenz(a,h)anthracene	ND	18	
Benzo(g,h,i)perylene	ND	18	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	92.84

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	85		23	120
2 - Fluorobiphenyl	88		30	115
p - Terphenyl - d14	94		18	137

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	17	
2-Methylnaphthalene	ND	17	
2-Chloronaphthalene	ND	17	
Acenaphthylene	ND	17	
Acenaphthene	ND	17	
Fluorene	ND	17	
Phenanthrene	ND	17	
Anthracene	ND	17	
Fluoranthene	ND	17	
Pyrene	ND	17	
Benzo(a)anthracene	ND	17	
Chrysene	ND	17	
Benzo(b)fluoranthene	ND	17	
Benzo(k)fluoranthene	ND	17	
Benzo(a)pyrene	ND	17	
Indeno(1,2,3-cd)pyrene	ND	17	
Dibenz(a,h)anthracene	ND	17	
Benzo(g,h,i)perylene	ND	17	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	94.86

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	94		44	145
Decachlorobiphenyl	85		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.1	
Aroclor 1221	ND	0.1	
Aroclor 1232	ND	0.1	
Aroclor 1242	ND	0.1	
Aroclor 1248	ND	0.1	
Aroclor 1254	ND	0.1	
Aroclor 1260	ND	0.1	
Aroclor 1262	ND	0.1	
Aroclor 1268	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	32
Lab ID:	76561-08
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	94.19

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	94		44	145
Decachlorobiphenyl	89		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.1	
Aroclor 1221	ND	0.1	
Aroclor 1232	ND	0.1	
Aroclor 1242	ND	0.1	
Aroclor 1248	ND	0.1	
Aroclor 1254	ND	0.1	
Aroclor 1260	ND	0.1	
Aroclor 1262	ND	0.1	
Aroclor 1268	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	94.36

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	91		44	145
Decachlorobiphenyl	83		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.1	
Aroclor 1221	ND	0.1	
Aroclor 1232	ND	0.1	
Aroclor 1242	ND	0.1	
Aroclor 1248	ND	0.1	
Aroclor 1254	ND	0.1	
Aroclor 1260	ND	0.1	
Aroclor 1262	ND	0.1	
Aroclor 1268	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	93.26

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	93		44	145
Decachlorobiphenyl	88		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.11	
Aroclor 1221	ND	0.11	
Aroclor 1232	ND	0.11	
Aroclor 1242	ND	0.11	
Aroclor 1248	ND	0.11	
Aroclor 1254	ND	0.11	
Aroclor 1260	ND	0.11	
Aroclor 1262	ND	0.11	
Aroclor 1268	ND	0.11	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	94.3

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	95		44	145
Decachlorobiphenyl	90		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.1	
Aroclor 1221	ND	0.1	
Aroclor 1232	ND	0.1	
Aroclor 1242	ND	0.1	
Aroclor 1248	ND	0.1	
Aroclor 1254	ND	0.1	
Aroclor 1260	ND	0.1	
Aroclor 1262	ND	0.1	
Aroclor 1268	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	96.32

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	97		44	145
Decachlorobiphenyl	92		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.1	
Aroclor 1221	ND	0.1	
Aroclor 1232	ND	0.1	
Aroclor 1242	ND	0.1	
Aroclor 1248	ND	0.1	
Aroclor 1254	ND	0.1	
Aroclor 1260	ND	0.1	
Aroclor 1262	ND	0.1	
Aroclor 1268	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	92.84

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	104		44	145
Decachlorobiphenyl	100		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.1	
Aroclor 1221	ND	0.1	
Aroclor 1232	ND	0.1	
Aroclor 1242	ND	0.1	
Aroclor 1248	ND	0.1	
Aroclor 1254	ND	0.1	
Aroclor 1260	ND	0.1	
Aroclor 1262	ND	0.1	
Aroclor 1268	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	11
Lab ID:	76561-01
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.32
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	97		50	150
o-terphenyl	110		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<19	
Diesel (>nC12-nC24)	<48	
Motor Oil (>nC24-nC32)	<96	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	11 - dup
Lab ID:	76561R01
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.32
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	113		50	150
o-terphenyl	121		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	<50	
Motor Oil (>nC24-nC32)	<99	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	12
Lab ID:	76561-02
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	93.13
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	90		50	150
o-terphenyl	97		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<21	
Diesel (>nC12-nC24)	<53	
Motor Oil (>nC24-nC32)	<110	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	13
Lab ID:	76561-03
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	93.32
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	89		50	150
o-terphenyl	97		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<21	
Diesel (>nC12-nC24)	<53	
Motor Oil (>nC24-nC32)	<110	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	21
Lab ID:	76561-04
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	92.78
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	90		50	150
o-terphenyl	98		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<21	
Diesel (>nC12-nC24)	<52	
Motor Oil (>nC24-nC32)	<100	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	22
Lab ID:	76561-05
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	91.57
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	94		50	150
o-terphenyl	105		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	<50	
Motor Oil (>nC24-nC32)	>100	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	23
Lab ID:	76561-06
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	92.49
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	105		50	150
o-terphenyl	113		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<21	
Diesel (>nC12-nC24)	>52	X1
Motor Oil (>nC24-nC32)	>100	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	94.86
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	92		50	150
o-terphenyl	99		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	>49	X1
Motor Oil (>nC24-nC32)	>98	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	94.36
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	92		50	150
o-terphenyl	98		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	>50	X1
Motor Oil (>nC24-nC32)	>100	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	41
Lab ID:	76561-10
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	94.97
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	115		50	150
o-terphenyl	122		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	<50	
Motor Oil (>nC24-nC32)	<100	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	42
Lab ID:	76561-11
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	95.11
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	91		50	150
o-terphenyl	100		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<19	
Diesel (>nC12-nC24)	<48	
Motor Oil (>nC24-nC32)	<97	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	43
Lab ID:	76561-12
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	90.41
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	84		50	150
o-terphenyl	89		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<21	
Diesel (>nC12-nC24)	<52	
Motor Oil (>nC24-nC32)	<100	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	93.26
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	64		50	150
o-terphenyl	67		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<19	
Diesel (>nC12-nC24)	<47	
Motor Oil (>nC24-nC32)	<95	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	94.3
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	84		50	150
o-terphenyl	87		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<19	
Diesel (>nC12-nC24)	<49	
Motor Oil (>nC24-nC32)	<97	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	96.32
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	80		50	150
o-terphenyl	83		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<19	
Diesel (>nC12-nC24)	<48	
Motor Oil (>nC24-nC32)	<96	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	92.84
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	79		50	150
o-terphenyl	83		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	<50	
Motor Oil (>nC24-nC32)	<99	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	41
Lab ID:	76561-10
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	94.97

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Bromofluorobenzene	145		59	145

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Benzene	ND	0.039	
Toluene	ND	0.039	
Ethylbenzene	ND	0.039	
m,p-Xylenes	ND	0.079	
o-Xylene	ND	0.039	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	42
Lab ID:	76561-11
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	95.11

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Bromofluorobenzene	136		59	145

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Benzene	ND	0.04	
Toluene	ND	0.04	
Ethylbenzene	ND	0.04	
m,p-Xylenes	ND	0.08	
o-Xylene	ND	0.04	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	43
Lab ID:	76561-12
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
% Solids	90.41

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Bromofluorobenzene	131		59	145

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Benzene	ND	0.041	
Toluene	ND	0.041	
Ethylbenzene	ND	0.041	
m,p-Xylenes	ND	0.083	
o-Xylene	ND	0.041	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	22
Lab ID:	76561-05
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/28/98
% Solids	91.57

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	96		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	34	20	X1
Motor Oil (>nC24-nC32)	180	41	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	23
Lab ID:	76561-06
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/28/98
% Solids	92.49

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	87		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	68	20	X1
Motor Oil (>nC24-nC32)	290	40	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/28/98
% Solids	94.86

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	95		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	320	110	X1
Motor Oil (>nC24-nC32)	1900	210	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/28/98
% Solids	94.36

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	98		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	590	100	X1
Motor Oil (>nC24-nC32)	3200	210	

X1 - Chromatogram suggests this might be heavy oil

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.86

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	48	1	
Chromium	8.4	2.1	
Lead	ND	31	
Selenium	ND	160	
Silver	ND	2.7	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	94.86

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	1	
Cadmium	ND	1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	31
Lab ID:	76561-07
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.86

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.079	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	32
Lab ID:	76561-08
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.19

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	47	0.91	
Chromium	5.6	1.8	
Lead	ND	27	
Selenium	ND	140	
Silver	ND	2.4	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	32
Lab ID:	76561-08
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	94.19

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	0.91	
Cadmium	ND	1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	32
Lab ID:	76561-08
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.19

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.072	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.36

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	56	0.9	
Chromium	4.5	1.8	
Lead	ND	27	
Selenium	ND	140	
Silver	ND	2.3	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	94.36

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	0.9	
Cadmium	ND	0.98	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	33
Lab ID:	76561-09
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.36

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.096	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	41
Lab ID:	76561-10
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.97

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Lead	ND	30	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	42
Lab ID:	76561-11
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	95.11

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Lead	ND	28	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	43
Lab ID:	76561-12
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	90.41

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Lead	46	28	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	93.26

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	0.99	
Cadmium	ND	1.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	93.26

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	44	0.99	
Chromium	9.9	2	
Lead	ND	30	
Selenium	ND	160	
Silver	ND	2.6	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	51
Lab ID:	76561-13
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	93.26

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.09	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.3

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	40	0.99	
Chromium	6.3	2	
Lead	ND	30	
Selenium	ND	160	
Silver	ND	2.6	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	94.3

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	0.99	
Cadmium	ND	1.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	52
Lab ID:	76561-14
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	94.3

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.081	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	96.32

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	71	0.87	
Chromium	13	1.7	
Lead	ND	26	
Selenium	ND	140	
Silver	ND	2.3	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	96.32

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	1.7	0.87	
Cadmium	ND	0.96	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	53
Lab ID:	76561-15
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	96.32

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	0.077	0.069	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	92.84

Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	47	0.96	
Chromium	6.9	1.9	
Lead	ND	29	
Selenium	ND	150	
Silver	ND	2.5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	5
% Solids	92.84

Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	0.96	
Cadmium	ND	1.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	PLSA Engineering
Client ID:	54
Lab ID:	76561-16
Date Received:	10/26/98
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1
% Solids	92.84

Mercury by CVAA - USEPA Method 7471

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.094	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - VOL940
Date Received:	-
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	
Dilution Factor	1

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Dibromofluoromethane	100		79	122
Toluene-d8	100		87	109
Bromofluorobenzene	97		74	131

Sample results are on an as received basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Chloromethane	ND	400	28	
Bromomethane	ND	400	140	
Vinyl Chloride	ND	400	190	
Chloroethane	ND	400	180	
Trichlorofluoromethane	ND	400	150	
1,1-Dichloroethene	ND	400	70	
Acetone	ND	400	140	
Methylene Chloride	2200	400	66	N
trans-1,2-Dichloroethene	ND	400	230	
1,1-Dichloroethane	ND	400	34	
cis-1,2-Dichloroethene	ND	400	170	
2-Butanone	ND	400	110	
Chloroform	ND	400	160	
1,1,1-Trichloroethane	ND	400	110	
Carbon Tetrachloride	ND	400	130	
Benzene	ND	400	150	
1,2-Dichloroethane	ND	400	110	
Trichloroethene	ND	400	97	
1,2-Dichloropropane	ND	400	94	
Bromodichloromethane	ND	400	110	
2-Chloroethyl Vinyl Ether	ND	2000	300	
cis-1,3-Dichloropropene	ND	400	80	
Toluene	ND	400	110	
4-Methyl-2-pentanone	ND	400	83	
trans-1,3-Dichloropropene	ND	400	60	
1,1,2-Trichloroethane	ND	400	100	

SOUND ANALYTICAL SERVICES, INC.

8240 Volatile Organics List by USEPA Method 5030\8260B Modified data for VOL940 continued...

Analyte	Result (ug/kg)	PQL	MDL
Tetrachloroethene	ND	400	110
Dibromochloromethane	ND	400	120
2-Hexanone	ND	400	46
Chlorobenzene	ND	400	110
Ethylbenzene	ND	400	120
m,p-Xylene	ND	800	240
o-Xylene	ND	400	120
Bromoform	ND	400	150
1,1,2,2-Tetrachloroethane	ND	400	96
1,3-Dichlorobenzene	ND	400	120
1,4-Dichlorobenzene	ND	400	140
1,2-Dichlorobenzene	ND	400	150

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: VOL940
Date Prepared: 10/26/98
Date Analyzed: 10/26/98
QC Batch ID: VOL940

Volatile Organics by USEPA Method 5030/8260B Modified

Compound Name	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	BSD Result (ug/kg)	BSD % Rec.	RPD	Flag
1,1-Dichloroethene	0	50	2420	4850	2540	5090	4.8	
Benzene	0	50	1950	3890	2020	4030	3.5	
Trichloroethene	0	50	1870	3750	1950	3900	3.9	
Toluene	0	50	1900	3810	2010	4030	5.6	
Chlorobenzene	0	50	1820	3640	1910	3830	5.1	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID: 31
Lab ID: 76561-07
Date Prepared: 10/26/98
Date Analyzed: 10/26/98
QC Batch ID: VOL940

8240 Volatile Organics List by USEPA Method 5030\8260B Modified

Compound Name	Sample Result (ug/kg)	Spike Amount (ug/kg)	MS Result (ug/kg)	MS % Rec.	MSD Result (ug/kg)	MSD % Rec.	RPD	Flag
1,1-Dichloroethene	0	51.4	2340	4560	2330	4540	-0.44	
Benzene	0	51.4	1970	3830	1960	3810	-0.52	
Trichloroethene	0	51.4	1930	3760	1880	3660	-2.7	
Toluene	0	51.4	2050	3990	2000	3890	-2.5	
Chlorobenzene	0	51.4	1950	3790	1890	3680	-2.9	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - SV2198
Date Received:	-
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Nitrobenzene - d5	89		23	120
2 - Fluorobiphenyl	76		30	115
p - Terphenyl - d14	74		18	137

Sample results are on an as received basis.

Analyte	Result (ug/kg)	PQL	Flags
Naphthalene	ND	20	
2-Methylnaphthalene	ND	20	
2-Chloronaphthalene	ND	20	
Acenaphthylene	ND	20	
Acenaphthene	ND	20	
Fluorene	ND	20	
Phenanthrene	ND	20	
Anthracene	ND	20	
Fluoranthene	ND	20	
Pyrene	ND	20	
Benzo(a)anthracene	ND	20	
Chrysene	ND	20	
Benzo(b)fluoranthene	ND	20	
Benzo(k)fluoranthene	ND	20	
Benzo(a)pyrene	ND	20	
Indeno(1,2,3-cd)pyrene	ND	20	
Dibenz(a,h)anthracene	ND	20	
Benzo(g,h,i)perylene	ND	20	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: SV2198
Date Prepared: 10/26/98
Date Analyzed: 10/26/98
QC Batch ID: SV2198

Semivolatile Organics by USEPA Method 8270

Compound Name	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	BSD Result (ug/kg)	BSD % Rec.	RPD	Flag
Acenaphthene	0	1000	720	72	728	72.8	1.1	
Pyrene	0	1000	840	84	836	83.6	-0.48	
Benzo(a)pyrene	0	1000	788	78.8	780	78	-1	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - HC389
Date Received:	-
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	
Dilution Factor	20

WTPH-HCID

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
1-chlorooctane	86		50	150
o-terphenyl	92		50	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	Flags
Gasoline (Toluene-nC12)	<20	
Diesel (>nC12-nC24)	<50	
Motor Oil (>nC24-nC32)	<100	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: 11
Lab ID: 76561-01
Date Prepared: 10/26/98
Date Analyzed: 10/26/98
QC Batch ID: HC389

WTPH-HCID

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Gasoline (Toluene-nC12)	<19	<20	NC	
Diesel (>nC12-nC24)	<48	<50	NC	
Motor Oil (>nC24-nC32)	<96	<99	NC	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: 51
Lab ID: 76561-13
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: HC389A

WTPH-HCID

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Gasoline (Toluene-nC12)	<19	<20	NC	
Diesel (>nC12-nC24)	<47	<48	NC	
Motor Oil (>nC24-nC32)	<95	<96	NC	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - PCBC42
Date Received:	-
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
% Solids	100

PCBs by USEPA Method 8082

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
TCMX	105		44	145
Decachlorobiphenyl	93		52	125

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	PQL	Flags
Aroclor 1016	ND	0.095	
Aroclor 1221	ND	0.095	
Aroclor 1232	ND	0.095	
Aroclor 1242	ND	0.095	
Aroclor 1248	ND	0.095	
Aroclor 1254	ND	0.095	
Aroclor 1260	ND	0.095	
Aroclor 1262	ND	0.095	
Aroclor 1268	ND	0.095	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	PCBC42
Date Prepared:	10/27/98
Date Analyzed:	10/29/98
QC Batch ID:	PCBC42

PCBs by USEPA Method 8082

Compound Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	BSD Result (mg/kg)	BSD % Rec.	RPD	Flag
Aroclor 1260	0	0.968	1.1	114	1.06	109	-4.5	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID: 31
Lab ID: 76561-07
Date Prepared: 10/27/98
Date Analyzed: 10/29/98
QC Batch ID: PCBC42

PCBs by USEPA Method 8082

Compound Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	MSD Result (mg/kg)	MSD % Rec.	RPD	Flag
Aroclor 1260	0	0.973	1.02	105	1.05	105	0	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - GB1587
Date Received:	-
Date Prepared:	10/26/98
Date Analyzed:	10/26/98
% Solids	

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
Bromofluorobenzene	139		59	145

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Benzene	ND	0.04	
Toluene	ND	0.04	
Ethylbenzene	ND	0.04	
m,p-Xylenes	ND	0.08	
o-Xylene	ND	0.04	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: 41
Lab ID: 76561-10
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: GB1587

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Benzene	0	0	NC	
Toluene	0	0	NC	
Ethylbenzene	0	0	NC	
m,p-Xylenes	0	0	NC	
o-Xylene	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID: 41
Lab ID: 76561-10
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: GB1587

Volatile Aromatic Hydrocarbons by USEPA Method 8021 Modified

Compound Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	MSD Result (mg/kg)	MSD % Rec.	RPD	Flag
Benzene	0	0.963	0.979	102	1.07	107	4.8	
Toluene	0	0.963	0.998	104	1.08	108	3.8	
Ethylbenzene	0	0.963	1.18	123	1.28	127	3.2	
m,p-Xylenes	0	1.93	2.54	132	2.75	137	3.7	
o-Xylene	0	0.963	1.18	123	1.27	126	2.4	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - DI1779
Date Received:	-
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
% Solids	

Extended Diesel Range by WTPH-D Modified

Surrogate	% Recovery	Flags	Recovery Limits	
			Low	High
o-terphenyl	86		50	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Diesel (>nC12-nC24)	ND	20	
Motor Oil (>nC24-nC32)	ND	40	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: DI1779
Date Prepared: 10/27/98
Date Analyzed: 10/27/98
QC Batch ID: DI1779

Extended Diesel Range by WTPH-D Modified

Compound Name	Blank Result (mg/kg)	Spike Amount (mg/kg)	BS Result (mg/kg)	BS % Rec.	BSD Result (mg/kg)	BSD % Rec.	RPD	Flag
Diesel (>nC12-nC24)	0	500	487	97.3	505	101	3.7	
Motor Oil (>nC24-nC32)	0	500	465	92.9	443	88.5	-4.9	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID:	GT-8158
Lab ID:	76586-01
Date Prepared:	10/27/98
Date Analyzed:	10/28/98
QC Batch ID:	DI1779

Diesel by WTPH-D

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Diesel (>nC12-nC24)	6600	5500	18.0	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - S082
Date Received:	-
Date Prepared:	10/27/98
Date Analyzed:	10/27/98
Dilution Factor	1

Mercury by CVAA - USEPA Method 7471

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Mercury	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: 33
Lab ID: 76561-09
Date Prepared: 10/27/98
Date Analyzed: 10/27/98
QC Batch ID: S082

Mercury by CVAA - USEPA Method 7471

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Mercury	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID: 33
Lab ID: 76561-09
Date Prepared: 10/27/98
Date Analyzed: 10/27/98
QC Batch ID: S082

Mercury by CVAA - USEPA Method 7471

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
Mercury	0	0.733	0.627	86	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - S081
Date Received:	-
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1

Metals by ICP-MS - USEPA Method 6020

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Arsenic	ND	0.2	
Cadmium	ND	0.2	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: 33
Lab ID: 76561-09
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: S081

Metals by ICP-MS - USEPA Method 6020

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Arsenic	0	0	NC	
Cadmium	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID: 33
Lab ID: 76561-09
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: S081

Metals by ICP-MS - USEPA Method 6020

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
Arsenic	0	705	719	102	
Cadmium	0	17.6	14.7	83	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - S081
Date Received:	-
Date Prepared:	10/26/98
Date Analyzed:	10/27/98
Dilution Factor	1

Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

Analyte	Result (mg/kg)	PQL	Flags
Barium	ND	1	
Chromium	ND	2	
Lead	ND	30	
Selenium	ND	160	
Silver	ND	2	

SOUND ANALYTICAL SERVICES, INC.

Duplicate Report

Client Sample ID: 33
Lab ID: 76561-09
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: S081

Metals by ICP - USEPA Method 6010

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
Barium	56	53	5.5	
Chromium	4.5	5	-11.0	
Lead	0	0	NC	
Selenium	0	0	NC	
Silver	0	0	NC	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike Report

Client Sample ID: 33
Lab ID: 76561-09
Date Prepared: 10/26/98
Date Analyzed: 10/27/98
QC Batch ID: S081

Metals by ICP - USEPA Method 6010

Parameter Name	Sample Result (mg/kg)	Spike Amount (mg/kg)	MS Result (mg/kg)	MS % Rec.	Flag
Barium	56	743	787	98	
Chromium	4.5	74.3	80	102	
Lead	0	186	207	112	
Selenium	0	743	721	97	
Silver	0	186	171	92	

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE: (253) 922-2310 - FAX: (253) 922-5047

DATA QUALIFIERS AND ABBREVIATIONS

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be $> 40\%$. The higher result was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- N: See analytical narrative.
- ND: Not Detected
- PQL: Practical Quantitation Limit
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.



ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

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Tacoma, Washington 98424

(253) 922-2310 • FAX (253) 922-5047

76 Sep

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: PLSA		ANALYSIS REQUESTED:										SPECIAL INSTRUCTIONS/COMMENTS									
PROJECT NAME: 98		# of Containers										These samples will be disposed of 45 days after receipt. Check this box to have samples returned <input type="checkbox"/>									
CONTACT: Brd Card		EPA 601/6010 Halogenated Volatiles										RUSH!									
PHONE NO: 509 575 6990		EPA 602/6020 Aromatic Volatiles																			
		EPA 608/6080 Chlorinated Pest., PCB's																			
		PAH's																			
		EPA 624/8240 (GC/MS)																			
		Semi-volatiles (GC/MS)																			
		TPH 418.1																			
		Oil & Grease																			
		Total Metals (Specify below)																			
		8 Metals																			
		Volatiles																			
		Semi-volatiles																			
		Pesticides & Herbicides																			
		WTPH-HClO																			
		VOC																			
		Priority Pollutants																			
		PCP																			
		DEH																			
		BTEX																			
		LEAD																			

LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	Printed Name	Signature	Time / Date	Firm
1	11	10/22/00	0945	Soil	M. Hodgman	[Signature]	10:00 10/26/00	SAS
2	12							
3	13							
4	21			0950				
5	22							
6	23							
7	31			0900				
8	32							
9	33							
10	41			0910				
11	42							
12	43							
13	51			0920				
14	52							
15	53							
16	54							

Relinquished By								
Received By	[Signature]							
Relinquished By								
Received By								
Relinquished By								
Received By								

07/4 vol

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

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

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

For Office Use Only
Owner # W 6779
Site # 4717

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tanks are registered): _____
Site/Business Name: Sunfair Chevrolet
Site Address: 1600 East Yakima Avenue Telephone: (509) 575-1090
Yakima Wa 98901
City State ZIP-Code

TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
<u>1</u>	<u>3-98</u>	<u>1000 gallon</u>	<u>Clean Motor Oil</u>
<u>2</u>	<u>"</u>	<u>1,000</u>	<u>Transmission Fluid</u>
<u>3</u>	<u>"</u>	<u>3,000</u>	<u>Waste Motor Oil</u>
<u>4</u>	<u>"</u>	<u>1,000</u>	<u>NONE</u>
<u>5</u>	<u>"</u>	<u>1,000</u>	<u>Waste Motor Oil</u>

**CONTAMINATION
PRESENT AT THE
TIME OF CLOSURE**

☒ Yes ☐ No

☐ Unknown

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

UST SYSTEM OWNER/OPERATOR:

UST Owner/Operator: Bob Hall
Owners Signature: [Signature] Telephone: 509, 575-1090
Address: 1600 East Yakima Avenue
Yakima Wa 98901
City State ZIP-Code

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Service Provider: Ken Leingang Excavating Inc. License Number: 1074851-26
Licensed Supervisor: Victor Stoder Decommissioning License Number: 1059697-26
Supervisors Signature: [Signature]
Address: 1117 North 27th Avenue
Yakima Wa 98902
City State ZIP-Code
Telephone: 509, 575-5507

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Name of Registered Site Assessor: PLSA Engineering
Telephone: 509, 575-6990
Address: 1120 W Lincoln Ave
Yakima Wa 98902
City State ZIP-Code

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APPENDIX III
SITE ASSESSMENT CHECKLIST



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

For Office Use Only
Owner # 46779
Site # 4717

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): _____

Site/Business Name: Sunfair Chevrolet, Inc.

Site Address: 1600 Terrace Heights Drive Telephone: (509) 248-7600

Street

Yakima
City

WA
State

98901
ZIP-Code

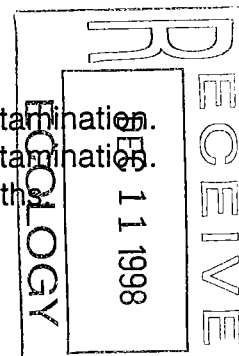
TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1</u>	<u>1000 gal.</u>	<u>New Motor Oil</u>
<u>2</u>	<u>1000</u>	<u>Automatic Transmission Oil</u>
<u>3</u>	<u>1000</u>	<u>Waste Oil</u>
<u>4</u>	<u>1000</u>	<u>diesel / automatic (car)</u>
<u>5</u>	<u>3000</u>	<u>waste oil</u>

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

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



CHECKLIST

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

	YES	NO
1. The location of the UST site is shown on the vicinity map.	<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 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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- samples collected from stockpiled excavated soil	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input 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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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

<u>Bradley J. Card P.E.</u> PERSON REGISTERED WITH ECOLOGY	<u>PLSA Engineering</u> FIRM AFFILIATED WITH	
BUSINESS ADDRESS: <u>1120 W Lincoln Ave.</u>	TELEPHONE: <u>(509) 875 6990</u>	
<u>Yakima</u> CITY	<u>WA</u> STATE	<u>98903</u> ZIP+CODE
<i>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.</i>		
<u>12/1/98</u> Date	<u>Bradley J. Card P.E.</u> Signature of Person Registered with Ecology	