

PEI

**PINNLL ENGINEERING, INC**

5070 Pacific Highway  
Ferndale, Washington 98248

*Civil, Structural and Foundation Engineering*

RECEIVED

JUL 15 1998

DEPT. OF ECOLOGY



UST #2931

UST # 472134

DEPARTMENT OF ECOLOGY NWRO/TCP TANK UNIT	
INTERIM CLEANUP REPORT	<input type="checkbox"/>
SITE CHARACTERIZATION	<input checked="" type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER _____	<input type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW	<input type="checkbox"/>
INSPECTOR (INIT.) <i>LA</i>	DATE <i>8/1/98</i>

*L.A. Bernardi C.  
aka L.J. Casey*

June 5, 1998

Mr. Mike Wagner  
Cannon Electric  
6148 Portal Way  
Ferndale, Washington 98248

RE: L.J. Casey  
1407 Iowa Street  
Bellingham, WA  
UST Site Assessment

Dear Mr. Wagner,

Enclosed you will find the results of the UST Site Assessment and testing of soil and water samples. Also attached are the field inspection reports, laboratory test results, vicinity map and site assessment check list.

The surrounding area and the site are commercial use, served with all utilities. The site was formerly used by a construction company.

Native soil is mottled brown & gray silty sand clay. A water service line was cut during tank removal.

Two 1,000 gallon gasoline tanks, two 1,000 gallon diesel and two, 500 gallon diesel tanks have been removed. Piping was cut off at tanks. Contaminated soil removed during tank excavation is stockpiled on site.

Twelve soil samples and one water sample were collected in accordance with Ecology's Guidance for Site Checks and Site Assessments for Underground Storage Tanks and the site Sampling Analysis plan. Soil samples and water sample was collected into a glass jar with Teflon lid liner. All soil and water samples were labeled and stored on ice until transported to the C.C.I. Laboratories in Everett, Washington using proper chain of custody procedures. The following are the test results:

Independent Action Report Update

Site Name: L.A. Bernardi Co; AKA L.J. Casey Co.

Inc. #: \_\_\_\_\_ Date of Report: 6/5/98

County: Whatcom Date Report Rec'd: 7/15/98

Reviewed by: A. Ademasu

Comments (please include: free prod., tank info., media, contaminant migration, GW conc. trends, PCS treated/fate?):

Water line cut during tank removal -  
water sample not representative of  
GW - unknown.

Soil contamination at North wall  
of excavation - 640ppm TPH-D

Owner on-site attempted to compromise  
results.

Soil stockpiled on-site 1200ppm TPH-D



**Soil Sample #1** Sample taken at fill spout of diesel tank at a depth of -10 feet, 5/15/98..

**Sample tested for TPH-DIESEL**

**Results:** WTPH- D ND(<25) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #2** Sample taken at fill spout of diesel tank at a depth of -10 feet, 5/15/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D ND(<28) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #2-2** Sample taken at fill spout of diesel tank at a depth of -10 feet, 5/15/98

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D ND(<25) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #3** Sample taken at fill spout of gasoline tank at a depth of -10 feet, 5/15/98.

**Sample tested for TPH-GASOLINE**

**Results:** WTPH-G ND(<5) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #4** Sample taken at fill spout of gasoline tank at a depth of -10 feet, 5/15/98

**Sample tested for TPH-Gasoline**

**Results:** WTPH-G ND(<5) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #5** Sample taken at North wall at a depth of -5 feet, 5/15/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D 640 MG/KG **ABOVE ACTION LEVEL**

**Soil Sample #6** Sample taken at the South wall at a depth of -5 feet, 5/15/98.

**Sample tested for TPH-GASOLINE**

**Results:** WTPH-G 6.1 MG/KG **BELOW ACTION LEVEL**

**Water Sample #7** Sample taken at fill spout Southeast side at a depth of -6 feet, 5/15/98.

**Sample tested for TPH-GASOLINE & DIESEL**

**Results:** WTPH-G 1400 UG/L **ABOVE ACTION LEVEL**  
WTPH-D 8100 UG/L **ABOVE ACTION LEVEL**

**Soil Sample #8** Sample taken at stock pile, 5/15/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D 1200 MG/KG **ABOVE ACTION LEVEL**

**Soil Sample #1** - Sample taken at South side of 500 gallon Diesel pit at a depth of -5 feet, 5/18/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D ND(<25) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #2** - Sample taken at the North side of 500 gallon Diesel pit at a depth of -5 feet, 5/18/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D ND(<25) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #3** - Sample taken at fill spout of 500 gallon Diesel tank at a depth of -9 feet, 5/18/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D ND(<25) MG/KG **BELOW ACTION LEVEL**

**Soil Sample #4** - Sample taken at fill spout of 500 gallon Diesel tank at a depth of -9 feet, 5/18/98.

**Sample tested for TPH-DIESEL**

**Results:** WTPH-D ND(<25) MG/KG **BELOW ACTION LEVEL**

It is our conclusion, from the laboratory test results reported by C.C.I. Analytical Laboratories: that soil samples #5 and #8, and water sample #7 tested above the action levels set by the Department of Ecology. We have reported this release to the Department of Ecology. Please notify us when you are ready for further testing.

All supportive information is enclosed with this report. We have provided you with two copies. One copy will be sent to the Department of Ecology Underground Storage Tank Section in Olympia, WA.

Conclusions and recommendations are professional opinions only. No warranty is expressed or implied. As a condition of our services, it is understood that to the fullest extent permitted by law, our clients agree to defend, indemnify and hold harmless Pinner Engineering, Inc. its owners, employees, subcontractors and agents, from any future claims or damages at the site, including potential claims from third parties that may name Pinner Engineering, Inc. its owners, employees, subcontractors and agents as a claimant. It is further understood, Pinner Engineering, Inc. its owners or employees are not responsible for any clean up of contamination at this site and may not be held responsible for any clean up activities performed by the owner or his agents.

Sincerely,

  
John A. Pinner  
Licensed UST Supervisor

enc: Field Inspection Report  
Laboratory Test Results  
Action Level Guide  
Vicinity Map  
Site Assessment Checklist

# FIELD INSPECTION REPORT

PINNER ENGINEERING, INC.  
(360) 384-1285 FAX (360) 384-0973

5070 PACIFIC HIGHWAY  
FERNDALE, WASHINGTON 98245

CLIENT <b>CANNON ELET</b>	REPORT SEQUENCE NO. <b>1</b>	SITE SKETCH 
PROJECT <b>LJ CASEY</b>	SHEET <b>1</b> OF <b>1</b>	
ADDRESS <b>1407 IOWA ST</b>	START <b>11:10:30</b> FINISH <b>1:30</b>	
<b>BELLINGHAM, WA</b>	DATE <b>5-15-98</b>	
WEATHER <b>RAIN</b>		

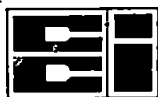
NATIVE SOIL: MOTTLED BROWN & GRAY SI SA CLAY  
WATER SERVICE LINE CUT DURING TANK REMOVAL,  
DISPENSER AT ISLAND OVER TANKS.

- ① - 10' AT FS TPHD 1000 GAL DIESEL
- ② - 10' AT FS TPHD " " "
- ③ - 10' AT FS TPHG 1000 GAL GAS
- ④ - 10' AT FS TPHG " " "
- ⑤ - 5' AT N. WALL TAPD
- ⑥ - 5' AT S. WALL TPHG
- ⑦ - 10' AT FS TPHG AT SITE ③ H<sub>2</sub>O SAMPLE
- ⑧ FROM STOCK PILE, TPHD, (MAY HAVE RUN INTO F1)
- ②-2 - 10' AT FS TPHD

CONTAMINATED SOIL RELOCATED TO ON SITE  
TREATMENT BED, ⑧ FROM BED (STOCK PILE)

OWNER WAS ON SITE. HE UNDESIRABLY INTERFERED  
WITH WORK OF SITE ASSESSOR IN AN ATTEMPT TO  
COMPROMISE THE RESULTS.

Our conclusions and recommendations are based upon visual examination of the site and field testing. Soil conditions may vary between test locations. Conclusions and recommendations are professional engineering opinions only. No warranty is expressed or implied. As a condition of our services, it is understood that to the fullest extent permitted by law, our clients agree to defend, indemnify and hold harmless Pinner Engineering, Inc., its owners, employees, subcontractors and agents, from any future claims or damages at the site, including potential claims from third parties that may name Pinner Engineering, Inc. as a claimant.



CCI  
ANALYTICAL  
LABORATORIES, INC.

### CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 1  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #1 @ F.S. 5/15/98 10:30

### DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<26)	MG/KG	200MG/KG	5/22/98	AMR

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



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CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 2  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #2 @ F.S. 5/15/98 10:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<28)	MG/KG	200MG/KG	5/22/98	AMR

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CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 3  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #2-2 @ F.S. 5/15/98 10:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<25)	MG/KG	200MG/KG	5/22/98	AMR

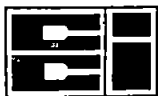
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CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 4  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #3 @ F.S. 5/15/98 10:30

DATA RESULTS

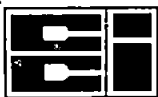
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	ND(<5)	MG/KG	100MG/KG	5/20/98	AMR

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CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 5  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #4 @ F.S. 5/15/98 10:30

DATA RESULTS

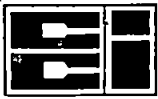
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	ND(<5)	MG/KG	100MG/KG	5/20/98	AMR

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CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 6  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #5 @ N. WALL 5/15/98 10:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	640	MG/KG	200MG/KG	5/22/98	AMR

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CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 7  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #6 @ S. WALL 5/15/98 10:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	6.1	MG/KG	100MG/KG	5/20/98	AMR

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CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 8  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #7 @ F.S. 5/15/98 10:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	1400	UG/L	1000 UG/L	5/27/98	AMR
TPH-DIESEL	WTPH-D	8100	UG/L	1000 UG/L	5/22/98	AMR

NOTE: GASOLINE RESULT IS DUE TO DIESEL RANGE PRODUCT ELUTING INTO THE GASOLINE RANGE

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CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056  
CCIL SAMPLE #: 9  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #8 STOCKPILE 5/15/98 10:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	1200	MG/KG	200MG/KG	5/27/98	AMR

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CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805056

DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY

### QUALITY CONTROL RESULTS

#### SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
805056-01	WTPH-D	C25	85
805056-02	WTPH-D	C25	85
805056-03	WTPH-D	C25	80
805056-04	WTPH-G	TFT	90
805056-05	WTPH-G	TFT	86
805056-06	WTPH-D	C25	89
805056-07	WTPH-G	TFT	73
805056-08	WTPH-D	C25	85
805056-08	WTPH-G	TFT	103
805056-09	WTPH-D	C25	*

\* SURROGATE DILUTED OUTSIDE OF CALIBRATION LIMITS

APPROVED BY:

# FIELD INSPECTION REPORT

PINNER ENGINEERING, INC.  
 (60) 384-1285 FAX (360) 384-0973

5070 PACIFIC HIGHWAY  
 FERNDALE, WASHINGTON 98248

CLIENT <b>CANNON</b>	REPORT SEQUENCE NO. <b>2</b>	SITE SKETCH 
PROJECT <b>LJ CASH</b>	SHEET <b>1</b> OF <b>1</b>	
ADDRESS <b>1407 IOWA ST</b>	START FINISH <b>11:00</b>	
<b>B' HAM WA</b>	DATE <b>5-18-98</b>	
WEATHER <b>CLOUDY</b>		

**2 - 500 GAL DIESEL PIPING CUT OFF AT TANKS**  
**FORMER SITE OF CONST CO., PRESENT USE: COMM.**

- |   |           |   |      |     |
|---|-----------|---|------|-----|
| ① | S. SIDE   | - | TPHD | -5' |
| ② | N. SIDE   | - | TPHD | -5' |
| ③ | FS        | - | TPHD | -9' |
| ④ | FILLSPOUT | - | TPHD | -9' |

**SITE NATIVE SOIL - SI. SA. CLAY, MOT. GRAY**  
**TANKS IN FAIR CONDITION, NO HOLES SHOWN**  
**SOME CONT. SOIL FOUND AT SITE, WHICH**  
**WAS REMOVE TO TEMP STOCKPILE. BACKFILL**  
**W/ CLEAN PIT RUN**  
**SITE SERVED BY WATER & SEWER**  
**CR**

Our conclusions and recommendations are based upon visual examination of the site and field testing. Soil conditions may vary between test locations. Conclusions and recommendations are professional engineering opinions only. No warranty is expressed or implied. As a condition of our services, it is understood that to the fullest extent permitted by law, our clients agree to defend, indemnify and hold harmless Pinner Engineering, Inc, its owners, employees, subcontractors and agents, from any future claims or damages at the site, including potential claims from third parties that may name Pinner Engineering, Inc. as a claimant.



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805057  
CCIL SAMPLE #: 1  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #1 S.SIDE 5/18/98 11:00

DATA RESULTS

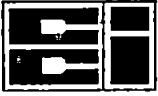
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<25)	MG/KG	200MG/KG	5/26/98	AMR

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



CCI  
ANALYTICAL  
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805057  
CCIL SAMPLE #: 2  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #2 N.SIDE 5/18/98 11:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<25)	MG/KG	200MG/KG	5/26/98	AMR

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805057  
CCIL SAMPLE #: 3  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #3 F.S. 5/18/98 11:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<25)	MG/KG	200MG/KG	5/26/98	AMR

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
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CERTIFICATE OF ANALYSIS

CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDALE, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805057  
CCIL SAMPLE #: 4  
DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY  
CLIENT SAMPLE ID: #4 F.S. 5/18/98 11:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-DIESEL	WTPH-D	ND(<25)	MG/KG	200MG/KG	5/26/98	AMR

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CLIENT: PINNER ENGINEERING, INC.  
5070 PACIFIC HWY.  
FERNDAL, WA 98248

DATE: 5/27/98  
CCIL JOB #: 805057

DATE RECEIVED: 5/19/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JOHN PINNER

CLIENT PROJECT ID: L.J. CASEY

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
805057-01	WTPH-D	C25	77
805057-02	WTPH-D	C25	81
805057-03	WTPH-D	C25	71
805057-04	WTPH-D	C25	72

APPROVED BY: 