GEOCHECK VERSION 2.1
SUMMARY

TARGET PROPERTY COORDINATES

Latitude (North):	47.239498 - 47' 14' 22.2"
Longitude (West):	122.523697 - 122' 31' 25.3"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	536049.9
UTM Y (Meters):	5231671.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property:	2447122-B5 STEILACOOM, WA

GEOLOGIC AGE IDENTIFICATION†

Geologic Code:	Q
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary

ROCK STRATIGRAPHIC UNIT†

Category:	Stratifed Sequence

GROUNDWATER FLOW INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡

AQUIFLOW™** Search Radius: 2.000 Miles

MAP ID	DISTANCE FROM TP	DIRECTION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
2g	1 - 2 Miles	North	SW
3g	1 - 2 Miles	North	SW
4g	1 - 2 Miles	North	Not Reported

For additional site information, refer to GeoCheck Appendix.

General Topographic Gradient at Target Property: General WSW
General Hydrogeologic Gradient at Target Property: No hydrogeologic data available.

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).
‡ U.S. EPA Ground Water Handbook, Vol I: Ground Water and Contamination, Office of Research and development EPA/625/6-90/016a,Chapter 4, page 78, September 1990.
** EDR AQUIFLOW™ Information System of hydrogeologically determined groundwater flow directions at specific locations. See the date pages at the end of this report for a complete description.

GEOCHECK VERSION 2.1
SUMMARY

Site-Specific Hydrogeological Data*:
Search Radius: 2.0 miles
Status: Not found

FEDERAL DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP	LITHOLOGY	DEPTH TO WATER TABLE
NO WELLS FOUND			

STATE DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP
Northern	>2 Miles

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.
NOTE: PWS System location is not always the same as well location.

PWS Name: VERA VISTA APT W S
TACOMA, WA 98466
Location Relative to TP: 1/4 - 1/2 Mile East
PWS currently has or has had major violation(s) or enforcement: No

AREA RADON INFORMATION

EPA Radon Zone for PIERCE County: 3

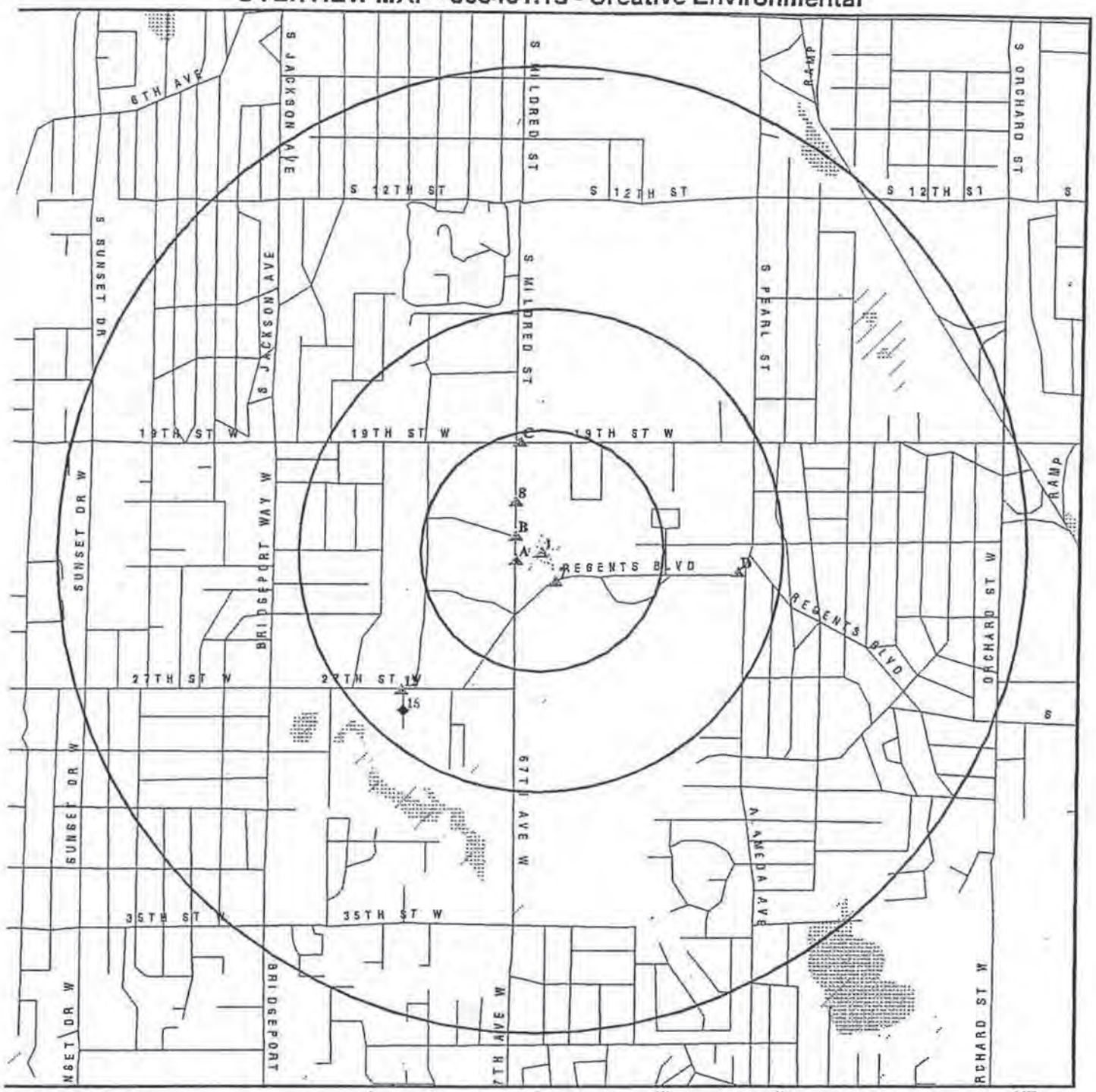
Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Zip Code: 98466

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.150 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.600 pCi/L	100%	0%	0%

OVERVIEW MAP - 369401.1s - Creative Environmental

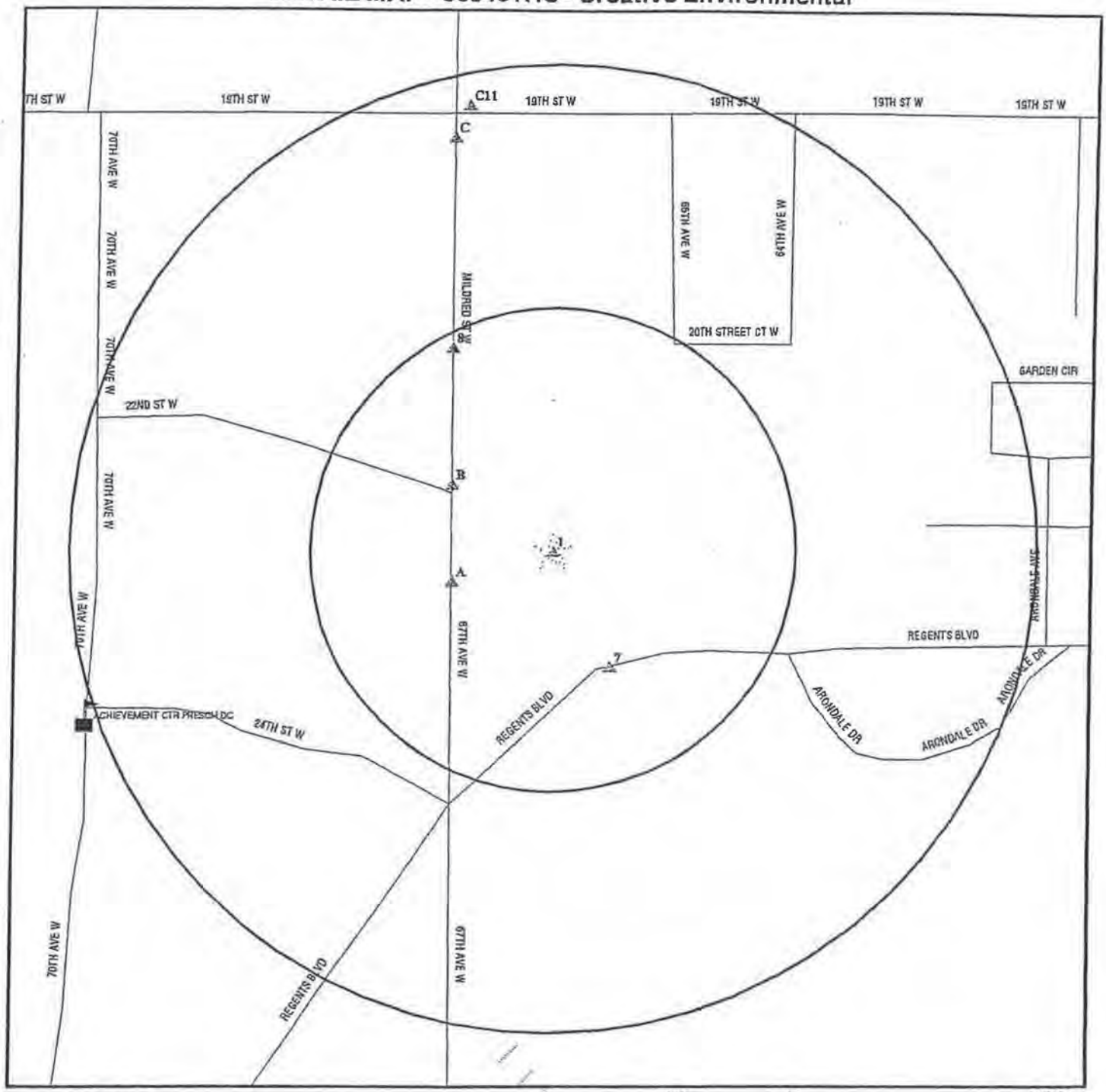


0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Wetlands per National Wetlands Inventory (1994)

TARGET PROPERTY:	Metal Marine Pilot, Inc.	CUSTOMER:	Creative Environmental
ADDRESS:	2119 Mildred Street West	CONTACT:	Stephen Spencer
CITY/STATE/ZIP:	Fircrest WA 98466	INQUIRY #:	369401.1s
LAT/LONG:	47.2395 / 122.5237	DATE:	May 13, 1999 7:26 pm

DETAIL MAP - 369401.1s - Creative Environmental



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

TARGET PROPERTY:	Metal Marine Pilot, Inc.	CUSTOMER:	Creative Environmental
ADDRESS:	2119 Mildred Street West	CONTACT:	Stephen Spencer
CITY/STATE/ZIP:	Fircrest WA 98466	INQUIRY #:	369401.1s
LAT/LONG:	47.2395 / 122.5237	DATE:	May 13, 1999 7:28 pm

MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
CSCSL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	1	NR	NR	1
LUST		0.500	1	2	2	NR	NR	5
UST	X	0.250	3	2	NR	NR	NR	5
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	2	2	NR	NR	NR	4
RCRIS Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Wa Air Emissions (EMI)		TP	NR	NR	NR	NR	NR	0
WA ICR		0.500	1	0	4	NR	NR	5
Coal Gas		1.000	0	0	0	0	NR	0
MINES		0.250	0	0	NR	NR	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY SHOWING ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
CSCSL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	1	2	1	NR	NR	4
UST	X	0.250	3	2	NR	NR	NR	5
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	2	2	NR	NR	NR	4
RCRIS Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Wa Air Emissions (EMI)		TP	NR	NR	NR	NR	NR	0
WA ICR		0.500	1	0	4	NR	NR	5
Coal Gas		1.000	0	0	0	0	NR	0
MINES		0.250	0	0	NR	NR	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

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1 **Target** **Property**	**METAL MARINE PILOT, INC.** **2119 MILDRED ST W** **TACOMA, WA 98466**	**UST**	**U003354887** **N/A**

UST:

Facility ID:	5902
Install Date:	12/31/64
Capacity:	111 to 1,100 Gallons
Status:	Closed in Place
Tank Name:	4
Tank Material:	Not reported
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

Facility ID:	5902
Install Date:	6/1/74
Capacity:	111 to 1,100 Gallons
Status:	Removed
Tank Name:	1
Tank Material:	OTHER
Substance:	KEROSENE
Compartment #:	1
Ecology Region:	South Western

Facility ID:	5902
Install Date:	12/31/64
Capacity:	111 to 1,100 Gallons
Status:	Exempt
Tank Name:	3
Tank Material:	Steel-Unprotected
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

Facility ID:	5902
Install Date:	6/1/74
Capacity:	111 to 1,100 Gallons
Status:	Removed
Tank Name:	2
Tank Material:	Steel-Unprotected
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

A2 **WSW** **< 1/8** **291** **Higher**	**LELAND M MCARTHUR** **2305 MILDRED ST W** **TACOMA, WA 98466**	**UST**	**U003352666** **N/A**

LELAND M MCARTHUR (Continued) **U003352666**

UST:

Facility ID:	101518
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	1-8000
Tank Material:	Not reported
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

Facility ID:	101518
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	2-4000
Tank Material:	Not reported
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

Facility ID:	101518
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	3-8000
Tank Material:	Not reported
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

A3 WSW < 1/8 297 Higher | **Y PAY MOR CLEANERS TACOMA**
2310 MILDRED ST W
TACOMA, WA 98466 | **RCRIS-SQG** | **1000160956**
FINDS | **WAD981764004**

RCRIS:

Owner:	Y PAY MOR CLEANERS (360) 555-1212
Contact:	LOU PARENT (253) 564-6000
Record Date:	Not reported
Classification:	Not reported
Used Oil Recyc:	No
Violation Status:	No violations found

B4 WNW < 1/8 336 Higher | **MINIT-LUBE #1112**
2218 MILDRED ST W
TACOMA, WA 98466 | **UST** | **U003355163**
LUST | **N/A**

MINIT-LUBE #1112 (Continued) — **U003355163**

LUST:

Facility ID:	6792	Ecology Region:	South Western
Release ID:	5692	Release Date:	04/04/95
Release Status:	REPORTED CLEANED UP	Status Date:	05/04/95
Alternate Name:	MINIT-LUBE #1112		
Affected Media:	SOIL		

Facility ID:	6792	Ecology Region:	South Western
Release ID:	5692	Release Date:	04/04/95
Release Status:	CLEANUP STARTED	Status Date:	04/04/95
Alternate Name:	MINIT-LUBE #1112		
Affected Media:	SOIL		

UST:

Facility ID:	6792
Install Date:	6/1/82
Capacity:	1,101 TO 2,000 GALLONS
Status:	REMOVED
Tank Name:	1
Tank Material:	Steel-Unprotected
Substance:	MOTOR OIL
Compartment #:	1
Ecology Region:	South Western

Facility ID:	6792
Install Date:	6/1/82
Capacity:	1,101 TO 2,000 GALLONS
Status:	REMOVED
Tank Name:	2
Tank Material:	Steel-Unprotected
Substance:	MOTOR OIL
Compartment #:	1
Ecology Region:	South Western

Facility ID:	6792
Install Date:	6/1/82
Capacity:	111 to 1,100 Gallons
Status:	REMOVED
Tank Name:	3
Tank Material:	Steel-Unprotected
Substance:	USED OIL/WASTE OIL
Compartment #:	1
Ecology Region:	South Western

B5
WNW
< 1/8
336
Higher

QUAKER STATE MINIT LUBE INC 11
2218 MILDRED ST W
TACOMA, WA 98466

RCRIS-SQG **1000838645**
FINDS **WAD988514360**

QUAKER STATE MINIT LUBE INC 11 (Continued) — **1000838645**

RCRIS:

Owner:	QUAKER STATE MINIT LUBE INC (360) 555-1212
Contact:	LEE LAWRENCE (206) 527-5200
Record Date:	08/06/1993
Classification:	Not reported
Used Oil Recyc:	No
Violation Status:	No violations found

B6 WNW < 1/8 336 Higher — **Q LUBE**, **2218 MILDRED ST W**, **TACOMA, WA 98466** — **WA ICR** — **S103508769** / **N/A**

WA ICR:

Date Ecology Received Report:	05/04/1995
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	South Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-50
County Code:	27

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7 SSE < 1/8 353 Higher — **FIRCREST GOLF CLUB**, **6520 REGENTS BLVD**, **TACOMA, WA 98466** — **UST** — **U003353880** / **N/A**

UST:

Facility ID:	2475
Install Date:	Not reported
Capacity:	Not reported
Status:	REMOVED
Tank Name:	3
Tank Material:	Not reported
Substance:	ALCOHOL BLEND GASOLINE
Compartment #:	1
Ecology Region:	South Western

Facility ID:	2475
Install Date:	6/15/89
Capacity:	111 to 1,100 Gallons
Status:	REMOVED
Tank Name:	2
Tank Material:	Coated Steel
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

FIRCREST GOLF CLUB (Continued) — **U003353880**

Facility ID: 2475
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: 1
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 2475
Install Date: 6/15/89
Capacity: 111 to 1,100 Gallons
Status: REMOVED
Tank Name: 1R
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

8
NNW
< 1/8
624
Higher

PUGET CORP
2101 MILDRED ST W
TACOMA, WA 98466

RCRIS-LQG **1000223435**
TRIS **WAD009242090**

RCRIS:
Owner: LEGGETT & PLATT INC
(417) 358-8131

Contact: TOM DUNCAN
(253) 564-3632

Record Date: 12/31/1997

Classification: Large Quantity Generator

BIENNIAL REPORTS:
Last Biennial Reporting Year: 1995

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	3491.40	D008	3491.40
D018	3491.40	D039	3491.40

Used Oil Recyc: No

Violation Status: No violations found

C9
NNW
1/8-1/4
1153
Higher

TACOMA DRAPERY TOWNE CLEANER
1923 MILDRED W
TACOMA, WA 98466

RCRIS-SQG **1000334209**
FINDS **WAD027537984**

TACOMA DRAPERY TOWNE CLEANER (Continued) **1000334209**

RCRIS:
Owner: TACOMA DRAPERY TOWNE CLEANER
(360) 555-1212
Contact: JUNG LEE
(253) 565-0777
Record Date: Not reported
Classification: Not reported
Used Oil Recyc: No
Violation Status: No violations found

C10 NNW 1/8-1/4 1161 Higher | **TOWNE CLEANERS**
1923 MILDRED ST W
TACOMA, WA 98466 | **UST**
LUST | **U003353560**
N/A

LUST:

Facility ID:	1292	Ecology Region:	South Western
Release ID:	393018	Release Date:	04/05/93
Release Status:	AWAITING CLEANUP	Status Date:	04/05/93
Alternate Name:	TOWNE CLEANERS/SEE ALSO: PACE INDUSTRIES		
Affected Media:	SOIL		

UST:

Facility ID: 1292
Install Date: 12/31/64
Capacity: Not reported
Status: Closed In Place
Tank Name: 1
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 1292
Install Date: 12/31/64
Capacity: Not reported
Status: Closed In Place
Tank Name: 2
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 1292
Install Date: 12/31/64
Capacity: Not reported
Status: Closed In Place
Tank Name: 3
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
C11 NNW 1/8-1/4 1237 Higher	**BP SERVICE STATION 11077 6622 19TH ST W TACOMA, WA 98466**	**RCRIS-SQG FINDS UST LUST**	**1000659068 WAD988487336**

RCRIS:

Owner: TOSCO CORPORATION (602) 497-0600

Contact: TOM DUMONT (510) 277-2319

Record Date: 12/31/1997

Classification: Not reported

Used Oil Recyc: No

Violation Status: No violations found

LUST:

Facility ID:	8683	Ecology Region:	South Western
Release ID:	1369	Release Date:	02/12/90
Release Status:	CLEANUP STARTED	Status Date:	10/24/95
Alternate Name:	BP 11077		
Affected Media:	SOIL		

UST:

Facility ID:	8683
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	DSL
Tank Material:	Steel-Unprotected
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

Facility ID:	8683
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	NOL
Tank Material:	Steel-Unprotected
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

Facility ID:	8683
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	REG-1
Tank Material:	Steel-Unprotected
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

BP SERVICE STATION 11077 (Continued) **1000659068**

Facility ID: 8683
Install Date: 12/31/64
Capacity: Not reported
Status: Removed
Tank Name: REG-2
Tank Material: Steel-Unprotected
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8683
Install Date: 12/31/64
Capacity: Not reported
Status: Removed
Tank Name: SNL
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8683
Install Date: 1/1/77
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 2
Tank Material: Steel-Unprotected
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8683
Install Date: 1/1/77
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 3
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 8683
Install Date: 1/1/77
Capacity: 10,000 TO 19,999 GALLONS
Status: Operational
Tank Name: 1
Tank Material: Fiberglass Reinforced Plastic
Substance: UNLEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

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12 **WESTMARK CONSTRUCTION** **UST** **U003355804**
SW **7010 27TH ST W** **LUST** **N/A**
1/4-1/2 **TACOMA, WA 98466** **WA ICR**
2143
Higher

WESTMARK CONSTRUCTION (Continued) **U003355804**

LUST:

Facility ID:	9182	Ecology Region:	South Western
Release ID:	4234	Release Date:	02/01/93
Release Status:	REPORTED CLEANED UP	Status Date:	02/01/93
Alternate Name:	MERRIT NELSON COMPANY		
Affected Media:	SOIL		

Facility ID:	9182	Ecology Region:	South Western
Release ID:	4234	Release Date:	02/01/93
Release Status:	CLEANUP STARTED	Status Date:	11/25/92
Alternate Name:	MERRIT NELSON COMPANY		
Affected Media:	SOIL		

WA ICR:

Date Ecology Received Report:	02/01/1993
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	South Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	92-44
County Code:	27

UST:

Facility ID:	9182
Install Date:	1/1/74
Capacity:	Not reported
Status:	Removed
Tank Name:	1ASPHALT
Tank Material:	Not reported
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

Facility ID:	9182
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	D-201
Tank Material:	Steel-Unprotected
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

Facility ID:	9182
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	G-103
Tank Material:	Steel-Unprotected
Substance:	LEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

WESTMARK CONSTRUCTION (Continued) **U003355804**

Facility ID: 9182
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: D-202
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 9182
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: D-203
Tank Material: Steel-Unprotected
Substance: Not reported
Compartment #: 1
Ecology Region: South Western

Facility ID: 9182
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: G-101
Tank Material: Steel-Unprotected
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

Facility ID: 9182
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Status: Removed
Tank Name: G-102
Tank Material: Steel-Unprotected
Substance: LEADED GASOLINE
Compartment #: 1
Ecology Region: South Western

D13 **EXXON #7 7017** **WA ICR** **S103507204**
East **1033 REGENTS BLVD** **N/A**
1/4-1/2 **TACOMA, WA 98466**
2157
Higher

EXXON #7 7017 (Continued) — **S103507204**

WA ICR:

Date Ecology Received Report:	01/10/1994
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	South Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-17
County Code:	27

D14 East 1/4-1/2 2157 Higher — **EXXON #7 7017**, **1033 REGENTS BLVD**, **TACOMA, WA 98466** — **WA ICR** — **S103505477**, **N/A**

WA ICR:

Date Ecology Received Report:	03/14/1994
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	South Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-21
County Code:	27

D15 East 1/4-1/2 2157 Higher — **EXXON #7 7017**, **1033 REGENTS BLVD**, **TACOMA, WA 98466** — **WA ICR** — **S103507205**, **N/A**

WA ICR:

Date Ecology Received Report:	09/08/1994
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	South Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-33
County Code:	27

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16 SW 1/4-1/2 2299 Lower — **UNIVERSITY PLACE REFUSE SERVICE INC**, **2809 ROCHESTER ST W**, **TACOMA, WA 98466** — **UST**, **LUST**, **SWF/LF** — **U003353018**, **N/A**

LUST:

Facility ID:	10531	Ecology Region:	South Western
Release ID:	3140	Release Date:	12/24/90
Release Status:	AWAITING CLEANUP	Status Date:	12/24/90
Alternate Name:	Not reported		
Affected Media:	SOIL		

LF:

Facility ID:	SPU
Contact:	Rodger Gruener

UNIVERSITY PLACE REFUSE SERVICE INC (Continued) **U003353018**

Name Change:	False	Ownership:	Private
Company:	University Place Refuse	Contact Title:	Not reported
Facility Fax:	Not reported	Facility Phone:	(206) 564-3212
Type:	Transfer Station		
Class Code:	T		
Class:	Intermediate		
Class Comment:	Not reported		
Sec/Twn/Rng:	Not reported		
Status:	Compost not transfer station		
Region:	SWRO		
Description:	Not reported		

UST:

Facility ID:	10531
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	1
Tank Material:	Steel-Unprotected
Substance:	Not reported
Compartment #:	1
Ecology Region:	South Western

Facility ID:	10531
Install Date:	12/31/64
Capacity:	Not reported
Status:	Removed
Tank Name:	2
Tank Material:	Steel-Unprotected
Substance:	UNLEADED GASOLINE
Compartment #:	1
Ecology Region:	South Western

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
TACOMA	U003354630	NARROWS TACKLE AND MARINE, INC.	9007 S 19TH ST	98466	UST, LUST	4756
TACOMA	S102512914	BP #11077	6622 S. 19TH ST.	98466	WA ICR	
TACOMA	S103509643	SOUTHLAND STORE #24520	4720 BRIDGEPORT WAY W	98466	WA ICR	
TACOMA	S103506205	CHEVRON #9 4369	GRANDVIEW DR. AND 27TH ST. W.	98466	WA ICR	
TACOMA	S103506206	CHEVRON #9 4369	GRANDVIEW DR. AND 27TH ST. W.	98466	WA ICR	
TACOMA	S103511055	WSDOT - TACOMA NARROWS MAINTENANCE YARD	1518 OLYMPIC BLVD.	98466	WA ICR	

GEOCHECK VERSION 2.1 ADDENDUM
GROUNDWATER FLOW INFORMATION

Map ID Direction Distance Elevation	Site	
2g North 1 - 2 Miles Lower	Site ID:	8749
	Groundwater Flow:	SW
	Shallowest Water Table Depth:	16.14
	Deepest Water Table Depth:	21.96
	Average Water Table Depth:	Not Reported
	Date:	09/24/1998
3g North 1 - 2 Miles Lower	Site ID:	8749
	Groundwater Flow:	SW
	Shallowest Water Table Depth:	23.15
	Deepest Water Table Depth:	24.00
	Average Water Table Depth:	Not Reported
	Date:	09/24/1998
4g North 1 - 2 Miles Lower	Site ID:	8749
	Groundwater Flow:	Not Reported
	Shallowest Water Table Depth:	15.9
	Deepest Water Table Depth:	20.4
	Average Water Table Depth:	Not Reported
	Date:	02/14/1995

The following regulatory files were reviewed by a member of EDR's professional field research team in an effort to identify groundwater flow direction and depth information. However, this information was not evident in the reports. This may be for a number of reasons, such as groundwater monitoring wells not being part of the field work or groundwater not having been encountered during drilling. This information is provided to save you time and money in the conduct of your hydrogeological research.

Map ID	Date	Type Of Report
1g	05/23/1997	Letter to Tacom - Pierce County Health Dept
5g	1998	Report 2:General Correspondence Operation and Maintenance Re
6g	1996	Report 1:General Correspondence Remediation System Installat
7g	03/1997	Review of Subsurface Petroleum Hydrocarbon Assessment Data
8g	01/16/1996	Report 1 Soil Vapor Extraction Quarterly Monitoring Report
9g	02/09/1995	Report 2 Soil Vapor Extraction Quarterly Monitoring Report
10g	12/05/1994	Independent Remedial Action Report

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Water Well Information:

Well Within >2 Miles of Target Property (Northern Quadrant)

Site Information:

Site ID:	471626122301201	Start Card #:	Not Reported
Old Site ID:	Not Reported		
Agency:	Department of Ecology	Transaction Code:	Add
Project #:	Not Reported	Local #:	26N/02E-02G04
Latitude:	471626.	Longitude:	1223012.
Lat/Long Accuracy:	accurate to +1 minute	Owner ID:	3
Lambert Coordinate North:	104405.60	Lambert Coordinate East:	1585423.10
Field Checked:	Not Reported	Remarks:	DUG
Site State:	Washington	Site County:	Kitsap
Location Map:	Not Reported	Map Scale:	0
Altitude (in feet):	180.00	Alt. Measurement Method:	Not Reported
Altitude Accuracy:	Not Reported	Hydrologic Unit Code:	Not Reported
Use of Site:	Unused	Secondary use:	Not Reported
Tertiary use:	Not Reported	Use of Water:	Domestic
Second. Water use:	Not Reported	Tertiary Water Use:	Not Reported
Local Name:	PRIVATE OTTO (SO-3)		
Establishment Date:	Not Reported	Data Reliability:	Minimal data
Station Type:	Ground water other than Spring	Date of first construction:	Not Reported
Primary Aquifer:	Not Reported	Aquifer Type:	Not Reported
Inventory Water Level:	0.61	Date Inven. Water measured:	01/17/1992
Well Depth (in feet):	0.00	Hole Depth (in feet):	0.00
Depth Data Source:	Not Reported		
Site Type:	Well, for single wells other than wells of collector or Ranney type		
Site Status:	Not Reported		
Lead Agency Use of Site:	Inventory data site only (no data has been collected at this site)		
Source of water level data:	Reported by another government agency		
Transaction Date:	02/14/1994		

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

PWS SUMMARY:

PWS ID:	WA5391460	PWS Status:	Active	Distance from TP:	1/4 - 1/2 Mile
Date Initiated:	Not Reported	Date Deactivated:	Not Reported	Dir relative to TP:	East
PWS Name:	VERA VISTA APT W S TACOMA, WA 98466				

Addressee / Facility: Not Reported

Facility Latitude: 47 14 22 Facility Longitude: 122 30 52

City Served: Not Reported

Treatment Class: Treated Population Served: Under 101 Persons

PWS currently has or has had major violation(s) or enforcement: No

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D008	LEAD
D018	BENZENE
D039	TETRACHLOROETHYLENE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/10/98
Date Made Active at EDR: 01/29/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/29/98
Elapsed ASTM days: 31
Date of Last EDR Contact: 03/03/99

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/98
Date Made Active at EDR: 01/18/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 01/13/99
Elapsed ASTM days: 5
Date of Last EDR Contact: 01/04/99

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 01/19/99
Date Made Active at EDR: 02/19/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/08/99
Elapsed ASTM days: 11
Date of Last EDR Contact: 02/08/99

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 03/01/99
Date Made Active at EDR: 05/07/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 04/08/99
Elapsed ASTM days: 29
Date of Last EDR Contact: 03/31/99

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/99
Date Made Active at EDR: 04/16/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 03/17/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/16/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDERAL NON-ASTM RECORDS:

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/95
Database Release Frequency: Biennially
Date of Last EDR Contact: 03/25/99
Date of Next Scheduled EDR Contact: 06/21/99

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: Varies
Database Release Frequency: Varies
Date of Last EDR Contact: Varies
Date of Next Scheduled EDR Contact: N/A

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA/NTIS
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/08/99
Database Release Frequency: Quarterly
Date of Last EDR Contact: 04/16/99
Date of Next Scheduled EDR Contact: 07/12/99

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/97
Database Release Frequency: Annually
Date of Last EDR Contact: 03/24/99
Date of Next Scheduled EDR Contact: 04/26/99

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/08/98
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/02/99
Date of Next Scheduled EDR Contact: 05/31/99

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 02/22/98
Date of Next Scheduled EDR Contact: 05/24/99

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/22/97
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/05/99
Date of Next Scheduled EDR Contact: 05/17/99

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/15/99
Date of Next Scheduled EDR Contact: 06/14/99

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/31/95
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/99
Date of Next Scheduled EDR Contact: 07/19/99

TRIS: Toxic Chemical Release Inventory System
Source: EPA/NTIS
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/95
Database Release Frequency: Annually

Date of Last EDR Contact: 04/01/99
Date of Next Scheduled EDR Contact: 06/28/99

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-1444
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/94
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 04/26/99
Date of Next Scheduled EDR Contact: 07/26/99

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/01/98
Database Release Frequency: N/A

Date of Last EDR Contact: 04/08/99
Date of Next Scheduled EDR Contact: 07/05/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF WASHINGTON ASTM RECORDS:

HSL: Hazardous Sites List
Source: Department of Ecology
Telephone: 360-407-7200
The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

Date of Government Version: 02/18/99
Date Made Active at EDR: 04/02/99
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/03/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/30/99

LUST: Leaking Underground Storage Tanks Site List
Source: Department of Ecology
Telephone: 360-407-7200
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/14/99
Date Made Active at EDR: 03/01/99
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/01/99
Elapsed ASTM days: 28
Date of Last EDR Contact: 02/01/99

CSCSL: Confirmed & Suspected Contaminated Sites List
Source: Department of Ecology
Telephone: 360-407-7200
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 11/23/98
Date Made Active at EDR: 01/26/99
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/23/98
Elapsed ASTM days: 34
Date of Last EDR Contact: 02/26/99

LF: Solid Waste Facility Database
Source: Department of Ecology
Telephone: 360-407-6132
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/01/98
Date Made Active at EDR: 12/31/98
Database Release Frequency: Annually

Date of Data Arrival at EDR: 10/14/98
Elapsed ASTM days: 78
Date of Last EDR Contact: 04/12/99

UST: Underground Storage Tank Database
Source: Department of Ecology
Telephone: 360-407-7170
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/14/99
Date Made Active at EDR: 03/03/99
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 02/01/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 02/01/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF WASHINGTON NON-ASTM RECORDS:

AIR EMISSIONS: Washington Emissions Data System
Source: Department of Ecology
Telephone: 360-407-6040

Date of Government Version: 12/31/96
Database Release Frequency: Annually

Date of Last EDR Contact: 04/26/99
Date of Next Scheduled EDR Contact: 04/26/99

ICR: Independent Cleanup Reports
Source: Department of Ecology
Telephone: 360-407-7200
These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree.

Date of Government Version: 02/19/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/26/99
Date of Next Scheduled EDR Contact: 07/26/99

WASHINGTON COUNTY RECORDS

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project
Source: Department of Public Health
Telephone: 206-296-4785
This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/86
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/14/95
Date of Next Scheduled EDR Contact: N/A

KING COUNTY:

Abandoned Landfill Study in King County
Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785
The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/85
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/21/94
Date of Next Scheduled EDR Contact: N/A

SEATTLE COUNTY:

Abandoned Landfill Study in the City of Seattle
Source: Seattle - King County Department of Public Health
Telephone: 206-296-4785
The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/84
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 10/21/94
Date of Next Scheduled EDR Contact: N/A

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District
Source: Snohomish Health District
Telephone: 206-339-5250

Date of Government Version: 12/31/98
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 04/26/99
Date of Next Scheduled EDR Contact: 07/26/99

TACOMA/PIERCE COUNTY:

Closed Landfill Survey
Source: Tacoma-Pierce County Health Department
Telephone: 206-591-6500
Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.

Date of Government Version: 04/15/93
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 01/11/95
Date of Next Scheduled EDR Contact: N/A

Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

DELISTED NPL: NPL Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/19/99
Date Made Active at EDR: 02/19/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/08/99
Elapsed ASTM days: 11
Date of Last EDR Contact: 02/08/99

NFRAP: No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 01/26/99
Date Made Active at EDR: 04/02/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 03/03/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/03/99

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1998 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in March 1997 from the U.S. Fish and Wildlife Service.

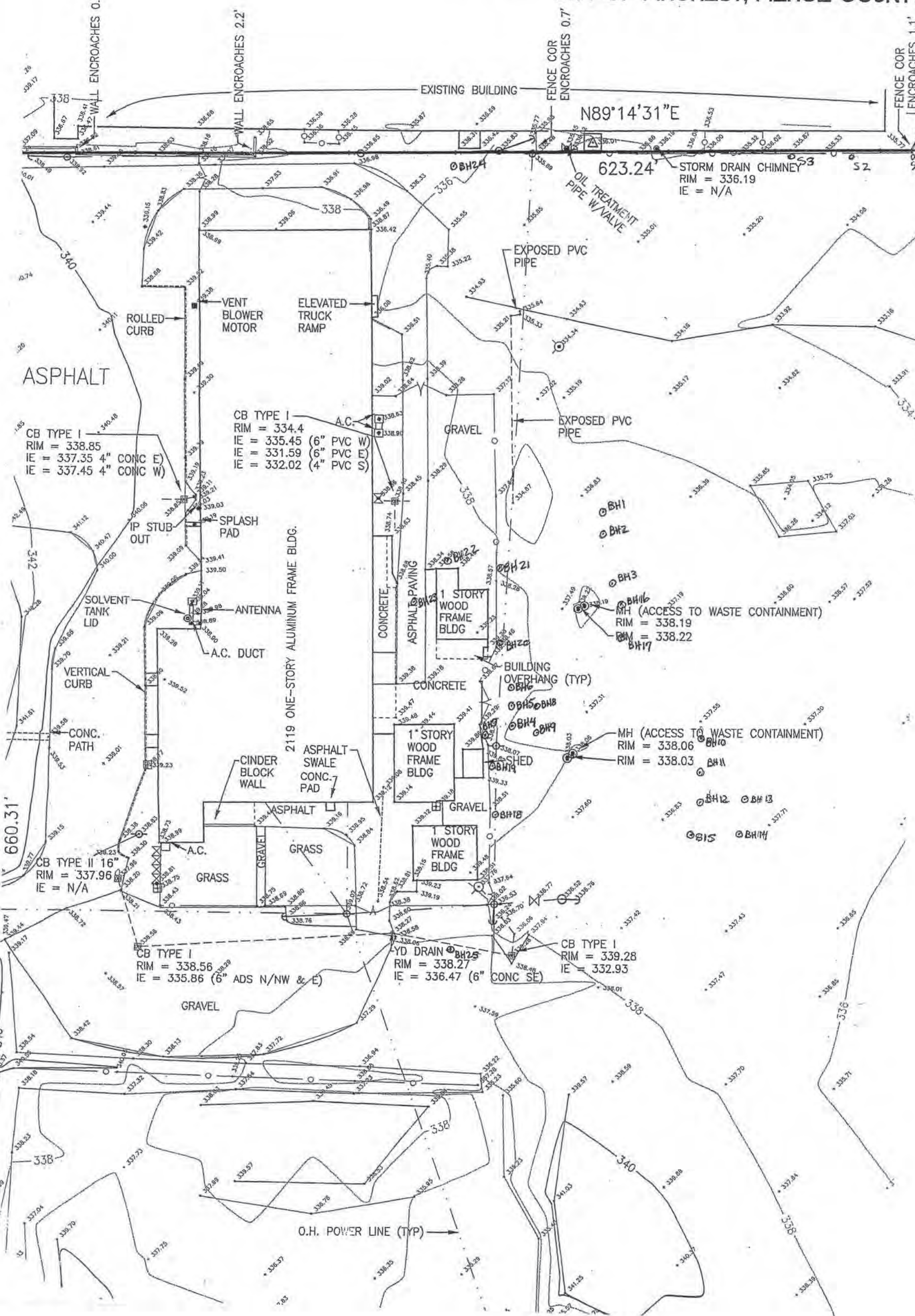
Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

Kitsap County Water Wells in Washington
Source: Public Utility District No. 1 of Kitsap County
Telephone: 206-779-7656

PORTION OF THE NW 1/4 OF THE NW 1/4, SE

CITY OF FIRCREST, PIERCE COUNTY



LEVEL 1 ENVIRONMENTAL SITE ASSESSMENT

Subject Property:
2119 Mildred St. West
Tacoma, Washington

May 7, 1999

Prepared For:
Janet Freeman-Daily, POA
~~Michael Freeman~~ for Robert M. Freeman, MI
~~Metal Marine Pilot, Inc.~~
~~Wood Freeman Automatic Pilots~~
2119 Mildred St. West
Tacoma, WA 98466

Prepared By:

Creative Environmental Technologies, Inc.
PO Box 1803
Tacoma, Washington 98401-1803
(253) 627-3347

DATE

APPOINTMENTS

Notes on CETI
Level 1 Assessment

TO BE DONE TODAY. DIARY/WORK RECORD, EXPENSES

Title page, pp: 5,[x2]
p. 8, 52

RMF: owns property
→ requested the
JEC POA Level 1 assessment
↳ should be recipient
of report
CHECK OWNERSHIP INFO!

p. 8; sec 3.5, para 3 —
airport cafe?
- CB constructed new
building
- did MMP own property
CB is now on? -

p. 14, para 4:
- use of percholoroethylene
& tri-. in matl prep shop
- drum hauled to
Western Processing

p. 19, MWF does not
own MMP!

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INTRODUCTION

The American Society for Testing and Materials (ASTM), as well as the National Association for Environmental Professionals (NREP), have established guidelines for the preparation of Level 1 property assessments. These guidelines are formulated within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). They set forth customary practice for conducting environmental site assessments of commercial real estate with regard to environmental impact and liability. A Level 1 property assessment, performed within these guidelines, satisfies the "innocent landowner defense" by ensuring that all appropriate inquiry into the past and present ownership and uses of the property has been made in accordance with USC s. 9601 (35) (B).

USEFUL DEFINITIONS

Asbestos - A naturally occurring mineral compound which has been found to cause cancer and is often found in pipe insulation, roofing materials, flooring materials, siding and other construction materials. Its presence can be detected through laboratory analysis of materials.

Asbestos-containing materials (ACM) - Any material which contains more than one percent asbestos.

Contaminated public well - A water well which has been designated by a government entity as unsafe to drink because of toxic substance contamination.

Drum - A container usually approximately 55 gallons in size which may be used to store hazardous substances or petroleum.

Dry well - An underground area where soil has been removed and replaced with a porous substance such as gravel, which is used for receipt of storm water or other liquids for disposal by percolation.

Environmental lien - An encumbrance on the property as a result of environmental contamination in accordance with CERCLA 42 or similar state and local laws.

ERNS List - A list of hazardous substance releases issued by EPA's emergency response certification system.

Fire insurance map - Maps produced by private insurance companies sometimes found at local libraries, historical societies or from map companies specializing in this product.

Independent Cleanup Reports (ICR) - These are remedial action reports that the Washington

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Dept. of Ecology has received from either the owner or operator of a contaminated site. These actions have been conducted without department oversight and are not under an order of decree.

Landfill - A tract of land or area used for the disposal of solid wastes. Also known as a trash dump, waste disposal site or may be called by similar terms.

Local street directories - Published sources that show ownership, occupancy or similar uses of a site, often available at libraries, colleges or historical societies.

Leaking Underground Storage Tank (LUST) - Any tank with more than 10% of its volume beneath the surface of the earth which is used for the storage of hazardous or petroleum substances and has been identified as leaking into the surrounding medium.

MSDS - Material Safety Data Sheets are written descriptions of chemical properties provided by manufacturers of the chemicals in accordance with OSHA regulations.

National Contingency Plan (NCP) - An EPA document indicating the preferred method to clean up hazardous substance contamination.

National Priorities List (NPL) - An EPA generated list of the highest priority sites for clean-up according to a set ranking system.

Resource Conservation Recovery Act (RCRA) - A law which governs generators, storing facilities and disposal facilities dealing with hazardous wastes.

Resource Conservation Recovery Information System (RCRIS) - This database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by RCRA.

Underground Storage Tank (UST) - Any tank with more than 10% of its volume beneath the surface of the earth which is used for the storage of hazardous or petroleum substances.

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TABLE OF CONTENTS

1.0 Summary 5

2.0 Introduction and Purpose 5
- 2.1 Methodology Used for Physical Examination 6
- 2.2 Site Access Restrictions Noted 6

3.0 Site Description and Site Inspection Survey 6
- 3.2 Legal Description 7
- 3.3 Current Uses of the Property 7
- 3.4 Past / Historical Uses of the Property 7
- 3.5 Current and Past Usage of Adjoining Properties 8
- 3.7 Site Rendering, Map or Site Plan 9

4.0 Records Review 9

5.0 Information From Site Reconnaissance 13
- 5.1 Site Inspection Survey Questionnaire 15
- 5.2 Site Interviews 19

6.0 Property Ownership 19

7.0 Findings, Conclusions & Recommendations 19

Appendix - A
Site Location Map, Site Map 1, Site Map 2, Photographs of Site

Appendix - B
Metroscan and Plat Maps

Appendix C
EDR Report

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1.0 Summary

Creative Environmental Technologies, Inc., performed a Level I Environmental Site Assessment (ESA) on a property located at 2119 Mildred St. West, ~~Tacoma~~ Fircrest, Washington. The purpose of this investigation was to determine the potential for environmental liability. A field inspection on April 27, 1999 consisted of a walk-through of the subject property, magnetometer survey, and a visual inspection of surrounding areas.

The ESA will also access the possibility of contamination from past land use. Reviews of pertinent available records of local, state, and federal agencies were conducted, as well as a review of aerial photographs of the subject property. Sanborn Fire Insurance maps were not reviewed as no record was available for the subject property. Interviews with individuals associated with the subject property and adjoining properties were conducted during the walk-through in order to ascertain previous property uses.

CETI identified sources that could potentially impact the subject property. Based on interviews with ~~the property owner~~, Mr. Michael Freeman, son of the property owner and President of the current lessee Metal Marine Pilot, Inc., previous on-site activities (i.e. the improper disposal of certain chemical solvent wastes in the undeveloped area east of the manufacturing building) may have impacted the soil. These solvents were used in the production of Metal Marine's auto pilot systems.

Other wastes such as mercury vapor lights were disposed of in the undeveloped area as well. Several other areas throughout the property pose minor environmental threats and are discussed in section 5.0. CETI also identified off site sources that potentially pose an environmental threat to the subject property. These are discussed in section 5.0.

2.0 Introduction and Purpose

A Level I Environmental Site Assessment is intended to determine whether there is potential for environmental contamination or liability based on readily available information about the site and a walk-through inspection of the site. If a potential for environmental contamination or liability does exist, the Level I ESA will indicate what additional activity is necessary to confirm evidence of contamination.

This report was prepared at the request of ~~Michael Freeman~~ Janet Freeman-Daily, POA for property owner Dr. Robert Freeman. The purpose of the assessment is to provide reasonable inquiry into the prior history of the site in order to determine the likelihood of environmental contamination and potential liability. The reasonable inquiry level is determined in accordance with accepted standards for a Level I Environmental Site Assessment published by The American Society for Testing of Materials (ASTM), and The National Registry for Environmental Professionals (NREP). This report is not intended as a warranty of the site

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condition. In addition, evaluation of liabilities from past business practices that have not resulted in contamination of the subject property are specifically excluded from the scope of this report.

2.1 Methodology Used for Physical Examination.

The following site examination methods were used:

A. Walk-over and visual observation of subject site

B. Aerial photograph review

C. Magnetometric Survey

2.2 Site Access Restrictions Noted

The majority of the subject property is undeveloped. The south and east sections consist of an empty lot without vegetation, buildings or fencing. A large building and a paved parking lot cover the northwest corner of the property. Much of The undeveloped area of the property is recent fill material. If activities that impacted the soil had occurred on site prior to backfilling and grading, the native soil could not be observed without first excavating the fill material.

3.0 Site Description and Site Inspection Survey

The subject property is located at 2119 Mildred St. West. The property is bounded on the north by Pace Industries, on the west by Mildred Street West, on the south by two separate properties, and on the east by two apartment complexes and a mortgage firm. Refer to Site Map 2, Appendix A for an illustration of the subject property in relation to neighboring properties.

The subject property slopes at a moderate grade to the east such that the western boundary is approximately five feet higher than the eastern boundary. The property slopes steeply near the eastern property boundary along South 64th Street, which lies below the grade of the subject property. The properties on the south side also lie below the grade of the subject property.

There are several buildings that occupy the property. The largest is a one story building. The original building was built in 1959, and has been subsequently added on to in 1961 and 1965, and again in 1979. The four sheds to the east of the building were constructed and added on to over time as well, the newest being used for the storage of cardboard boxes. The main structure

is a metal building with a metal roof resting on cement supports, anchored on a concrete foundation. The office section is constructed of mason blocks, with a brick exterior. The entire building is heated by forced air electric heat pumps and has primarily fluorescent lighting, a potential source of PCBs.

Metal Marine Pilot, Inc., ~~the~~ a Freeman family business, has ~~The Freeman family has owned and~~ used the building since its construction. The aerial photographs (circa 1946) indicate that no structures were present on the property before the present building was erected. An asphalt paved parking lot is located on the west side of the warehouse building, and extends to the north boundary of the property. A paved road extends to the east side of the building, linking Mildred Street to the storage sheds and the receiving department. The east section of the property has never been developed and is currently devoid of vegetation due to backfilling of the property. The eastern property boundary is a bioswale and small marshy pond. The runoff from the property and the north neighboring property runs into the settling pond, and ultimately into the storm sewer.

In 1961-1965 additions to the main building were made as the company expanded, and in 1979 a further addition was made to the north end of the building. The original office building, break room and what was then the entire machine and assembly operation was located in the southwest corner of the present building. The additions to the building are single story, with metal walls, frames, and roof supported by concrete pads. All floors are concrete.

3.2 Legal Description

The legal description for the 2119 property is as follows: SW OF NW OF NW SUBJ TO CY OF TAC EASE LESS R/W FOR RD

3.3 Current Uses of the Property

The subject property is used by Metal Marine Pilot, Inc. The facilities are used for the design, construction of components, assembly, painting, testing, service, and repair of marine automatic pilots.

The parking area is exclusively used by Metal Marine, the rear shipping area is also used to store miscellaneous equipment used in the construction of automatic pilots.

3.4 Past / Historical Uses of the Property

Polk business and residence directories indicate that the building was listed as occupied in

1961, however ~~an interview with the owner~~ Michael Freeman indicates the primary structure was in place in 1959. No other business has ever occupied the building or used the subject property.

3.5 Current and Past Usage of Adjoining Properties

The following discussion does not discuss neighboring properties that are comprised of surface streets (i.e the west adjoining area).

The west adjoining property is across Mildred Street West and is currently occupied by Wendy's, Dairy Queen, The Alehouse, the Keg, and a Quaker State oil change facility, from north to south respectively. The entire area is paved, excepting planter boxes and trees lining the parking lots. This area was used as an airport from prior to 1946 (the earliest available record) until 1979. Between 1961-1979 airport related businesses and restaurants operated in the area, the only adjoining property being Glass Tech Fibreglass Products at 2120 Mildred St. West. There are several other structures on the properties between 2000-2300 Mildred St. over 1946-79, including hangars for airplanes, repair facilities, and the Atlas foundry at 2404 Mildred St. CETI concludes that these businesses do not pose a threat to the subject property due to their distance from the property.

The south adjoining property is 2401 Mildred St West and is presently leased or owned by Columbia Bank. ~~The~~ A building ~~Columbia Bank occupies~~ appears ~~on~~ on that property in aerial photographs as early as 1971. ~~and interviews with the subject property owner indicate the land was sold by Metal Marine Pilot to the bank around that time.~~ The property was previously occupied by the Airport Cafe. Their building was demolished in ____ and ~~the~~ was replaced by the present structure ~~which~~ occupied by Columbia Bank.

The southeast adjoining properties are 1401 and 1501 Regents Blvd. and is presently owned or leased by Sterling Savings and a dental group, respectively. Aerial photographs indicate the buildings were constructed between 1992-1996.

The north adjoining property is 2101 Mildred St. West, and is presently ~~owned~~ leased by Pace Industries, an aluminum ~~casing~~ casting facility. The property was developed at the same time as the subject property, 1961, and has produced the same product under the name Puget Die Casting and Puget Co prior to being bought out by Pace Industries.

The east adjoining properties are, south to north, 1300 Regents Blvd, Fircrest Park Apartments, 6486 64th Ave. West, Fircrest Family Townhouses, and 6412 64th Ave. West, Amera Mortgage. The Fircrest Park Apartments were constructed prior to 1971, and the Fircrest Family Townhouses were constructed by 1979. The building housing Amera Mortgage is not listed in the Polk Directory, however the structure is visible on aerial photographs circa 1979.

3.7 Site Rendering, Map or Site Plan

Both a Site Location Map and a Site Map are included in this report in Appendix A. The Site Location Map shows the general location of the subject property. The Site Map was generated to show the location of the subject property and surrounding properties, and document the locations of items on the subject property described in this report.

4.0 Records Review

Environmental Databases Review

CETI retained the services of Environmental Data Resources, Inc. (EDR) to conduct a portion of the records research for this Level I Environmental Site Assessment. According to the data presented to CETI from EDR, there are eleven sites within a 1/4 mile radius of the subject property that are listed on various government and state databases, with some appearing on multiple lists. CETI has carefully reviewed the data compiled by EDR and determined that within a quarter mile radius of the subject property there are four from the Washington State Leaking Underground Storage Tank Database (LUST) list, six from the Federal Resource Conservation and Recovery Information System (RCRIS) list, five from the Washington State Underground Storage Tank Database (UST) list, and two from the Independent Cleanup Reports (ICR) list. These records are described in detail in the EDR report (Appendix C).

CETI views sites as a significant threat to the subject property if they meet the following criteria: 1) soil or groundwater was contaminated, and 2) the site lies upgradient of the subject property with respect to groundwater flow (such that contaminates might be transported onto the subject property). CETI also considers a site a threat if it lies immediately adjacent to the subject property. Groundwater flow direction in the general vicinity, as inferred from the regional topographic gradient, is northwest, however locally the gradient is southeast. Since the groundwater gradient is unknown all surrounding sites will be treated in this report as potentially upgradient of the subject property.

Numerous sites within a quarter mile radius of the subject property are listed on the Federal Resource Conservation and Recovery Information System (RCRIS) list. Discussed below are only those sites that are also listed on other databases or that have documented RCRIS violations. Please refer to the list of Useful Definitions at the beginning of this report for definitions of the acronyms used in the discussion below.

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Sites considered a significant threat to the subject property

Site 8 2101 Mildred St. West

This property is owned or leased by Pace Industries, Inc. Puget division and is listed on the RCRIS large quantity generator database. The site has no listed USTs, and no violations were reported. However, CETI remediated portions of the subject property contaminated by Pace Puget Industries, refer to the cleanup report.

Site C10 1923 Mildred St West

This property is owned or leased by Town Cleaners and is listed on the UST, LUST and RCRIS databases. EDR records do not provide any information regarding existing USTs but indicate three underground storage tanks were closed in place and another LUST is currently awaiting cleanup. The type of contamination affecting surrounding soil is unknown. No further information is provided regarding this property.

Although the potential exists for contaminants to have migrated onto the subject property from this site via groundwater flow it is unlikely. The site is located approximately four blocks to the north of the subject property and given the distance from the subject property, contaminants would likely not be able to migrate such a distance.

Site C11, 6622 19th St. W

This property is owned or leased by British Petroleum and is listed on the UST, LUST, and RCRIS databases. Five USTs were removed, one with unidentified contents, two containing leaded gasoline and two containing unleaded gasoline. One LUST site is currently undergoing remedial action for impacted soils. Three operational gasoline USTs are currently in use, one containing leaded gasoline, two containing unleaded gasoline.

Although the potential exists for contaminants to have migrated onto the subject property from this site via groundwater flow it is unlikely. The site is located approximately five blocks to the north of the subject property and given the distance from the subject property, contaminants would likely not be able to migrate such a distance.

Site B4, B5, B6 2118 Mildred St. West

This property is owned or leased by Quaker State Minit Lube and is listed on the UST,

LUST, ICR and RCRIS databases. Three USTs were removed, two containing motor oil and one containing waste oil. Two LUSTs were reported on the site, one has been remediated, while the other is currently undergoing remedial action. The LUSTs apparently contained petroleum products, which contaminated the surrounding soil. .

Site 12 7010 27th St. West

This property is owned or leased by Westmark Construction and is listed on the RCRIS-SQG, UST, LUST, ICR databases. Seven USTs were removed, four with unidentified contents and three containing leaded gasoline. Two LUSTs were reported on the site, one has been remediated, while the other is currently undergoing remedial action. The LUSTs apparently contained petroleum products, which contaminated the surrounding soil. The site is located approximately .5 miles to the southwest of the subject property and given the distance from the subject property, contaminates would likely not be able to migrate such a distance.

Site 7 6520 Regents Blvd

This property is owned or leased by Fircrest Golf Club and is listed on the UST, database. Four USTs were removed, two with unidentified contents and two containing unleaded gasoline.

Although the potential exists for contaminates to have migrated onto the subject property from this site via groundwater flow it is unlikely. The site is located approximately 7 blocks to the south of the subject property and migrating contaminates would likely miss the subject property.

Site D13, D14, D15, 1033 Regents Blvd

This property is owned or leased by Exxon and is listed on the ICR database. Three USTs are listed as contaminating soil in the area with unidentified petroleum products.

Although the potential exists for contaminates to have migrated onto the subject property from this site via groundwater flow, it is unlikely. The site is located approximately .4 miles to the south of the subject property and given the distance from the subject property, contaminates would likely not be able to migrate such a distance.

Site 16, 2809 Rochester St. West

This property is owned or leased by University Place Refuse Service Inc. and is listed on

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the UST and LUST and SWF/LF databases. Two USTs were removed from the site, one with unidentified contents, the second containing unleaded gasoline. One LUST is present on the property which is currently awaiting soil remediation, the contaminant is unidentified.

Although the potential exists for contaminates to have migrated onto the subject property from this site via groundwater flow, it is unlikely. The site is located approximately .4 miles to the east of the subject property and given the distance from the subject property, contaminates would likely not be able to migrate such a distance.

Site A2 2305 Mildred St. West

This property is owned or leased by Leland McArthur and is listed on the UST database. Three USTs were removed containing leaded gasoline. No spills or contamination were reported. The site is located to the southeast of the subject property and migrating contaminates would likely miss the subject property.

Aerial Review: (Aerial Photos provided by Walker and Associates)

Aerial photographs for the years 1996, 1992, 1985, 1979, 1971, 1946 were reviewed.

1996 The subject property contains one building, with three sheds, not four as there are currently.

1992 Same as above

1985 Same as above

1979 Same as above

1971 Same as above

1946 Same as above

Polk Business Directory, Tacoma Public Library

Polk Business directories were reviewed (1961-67) to determine the nature of the businesses that have occupied the subject property and adjoining properties in the past. The earliest record of a business present at this location is from 1961. There is a gap in the record from 1967-present for listings of Mildred St. West.

Radon

The Washington Department of Health, Division of Radiation Protection's Radon study of Pierce County, classifies the area and region as a low Radon risk area. Consequently, the potential for raised levels of Radon at the subject site is considered low.

5.0 Information From Site Reconnaissance

CETI performed a physical site inspection on May 12, 1999. Weather conditions during the inspections were partly cloudy, and the temperature ranged from approximately 45-50 degrees F with scattered showers. The topography of the subject property slopes to the southeast.

The subject property contains a large building with a paved parking area on the west side of the building. The east side of the building is an empty lot which has been partially graded, raising ground surface approximately four feet on the west side of the lot (see Site Map, Appendix A). For the purposes of this discussion the property will be divided into the following areas: the original warehouse structure, the sections of the plant, the lot, and the bioswale pond (see the Site Map for a labeled illustration). For a discussion of the history the buildings on the subject property refer to Section 1.3.1, Site Description.

The building is divided into several sections, the southwest portion being the engineering, customer service and office section. The south portion contains the armature and machine shop areas. The center of the building houses the hydraulic room, a storage area, and the electric testing section. The north end of the building is used primarily for storage, although there are some assembly work benches. Next to the offices in the west section is the compass room. The premises appear very clean and well maintained. The floor of the entire building is concrete. In the office areas are finished floors (See Site Map, Appendix A).

The building contains fifteen drill presses, metal lathes, band saws, air compressors, air lines all around the building lubricated with oil, ten grinders, refrigerators, hydraulic door openers, hydraulic oil, laquer thinner, kerosene, silicone rubber, solder, and welding supplies. The hydraulic room contains a test facility for hydraulic rams, including a pump and various hoses. There was oil present on the work bench, the tools, and the floor. The floor is a solid pour, uncracked piece of concrete which appears well maintained. The compass room contains kerosene, which is put in the compasses. The kerosene is pumped from a tank in the lean to on the material preparation shed. The line runs under the eves from the east side of the building around the north end and down the west side to the compass room (See site map, Appendix A). There is a 60 gal UST on the north end of the compass room to catch and store any excess kerosene. The UST is a glass lined hot water heater tank buried in a round cement vault.

Several drums containing metal scraps and filings are lined up along the east side of the building.

Two septic tanks are buried on the property, one near the restrooms at the southwest corner of the building and one midway down the west side of the structure. There are heat pumps located outside the building, one along the south wall, midway along the west side, and another approximately 2/3 the way north along the west wall of the building.

On the southeast corner of the warehouse are four small sheds. The southern shed is the painting shed, where the housings and parts are sprayed and dried. This facility is kept clean with air filters to remove paint from the air when ventilating the shop. The floor is concrete, which grades to a drain leading to a sealed recovery UST in the undeveloped lot on the east side of the building. There are two USTs in the undeveloped lot which are designed to catch any hazardous materials spilled in the painting facility or the material preparation shed. The USTs are monitored monthly and have never contained any materials in the past except rainwater. The small shed next to the material preparation shed is used for paint storage shed (See site map, Appendix A). It contains a variety of hazardous materials including approximately 10 gallons of enamel and acrylic paint, 5 gallons trichloroethylene, 6 gallons methyl ethyl ketone, 5 gallons percloroethyne, new & used laquer thinner, 12 cans of spray paint, 2 gallons stain, 5 gallons aeroshell 100, 1 gallon denatured alcohol, 5 gallons hydraulic oil, clear cote, 1 gallon contact cement, 1 gallon phosphoric acid, 1 gallon methanol, and alodyne, an aluminum coat. The shop has a concrete floor with minor stains.

The material preparation shed is used to clean parts and prepare them for painting and varnishing. Some brazing and varnish sealing is done in the shop as well. Along the east wall there is a sink for cleaning parts, the contaminated water being pumped into a 300 gallon plastic ground storage tank. The water is then pumped into an evaporator and released back into the atmosphere. There are varnish racks along the south wall of the shed, where items are varnished and left to air dry. Some hazardous materials are stored in the center of the shed, including 5 gal trichloroethylene, 20 gallons of varnish (air dry), 10 gallons of detergents, 1 medium sized acetylene bottle and welding supplies, a hot water heater and three ovens, used to harden varnish. The floor is clean and there do not appear to have been any spills. A lean to was built on the east side of the material preparation shed to house the contaminated water tank, the kerosene pump and tank, and various drums. The lean to was enclosed at the request of the EPA during a voluntary inspection. The lean-to contains 18 55-gallon drums, including drums of recycled sludge from parts washing, 8 empty drums, 1 drum of muselrex, 1 drum of used trichloroethylene, and 2 oil drums with hand pumps attached. One unlabeled drum is leaking what appears to be oil into a pan placed underneath it. There is a drain in the floor feeding into the sealed UST mentioned above to isolate and contain any spills. The concrete floor appears clean and shows no traces of spills.

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The wash water from the material preparation building prior to around 1992 was piped out into the empty lot and ran down gradient on concrete tiles. Potential contamination from this dumping is currently buried under fill material brought in during grading.

Two USTs were removed from the south side of the building, just beyond the fence. The USTs were decommissioned and removed by a local environmental company in compliance with state and federal regulations regarding tank removal. The tanks were oriented east-west. The tanks were 2000 gallon capacity, one was used for the storage of diesel, while the other was used to store kerosene. There is a possibility of contamination from the USTs, but further investigation and sampling would be necessary to make a determination.

There is a shed used to store cardboard boxes on the southeast corner of the fenced area.

Between the paint storage shed and the cardboard box storage shed are several empty, rusty drums and a section of concrete-asbestos pipe.

The asphalt parking lot and the west side of the roof drain into two storm drains on the west side of the building, one midway and one at the south corner. The northern roof section drains into the unpaved area along the building. The east side of the roof drains in a similar fashion, with the south section feeding into the patio drainage.

CETI used a magnetometer to survey the property in order to identify large buried metal objects such as underground storage tanks. Several small signals were encountered on the western portion of the property. These signals could have been caused by a multitude of small buried metal objects, such as construction debris.

5.1 Site Inspection Survey Questionnaire

1a. Is the property used for industrial use?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, it is used to produce automatic pilots.

1b. Is any adjoining property used for an industrial use?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, the property bordering to the north is occupied by an aluminum casting facility

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2a. Is there any evidence that the property might have had an industrial use in the past?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, it has been used by Metal Marine since the property was developed.

2b. Is there any evidence that an adjoining property might have had an industrial use in the past?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, the north adjoining property has been used as a casting facility since the property was developed.

3a. Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

3b. Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing or recycling facility?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

4. Are there any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gallons (19 L) in volume or 50-gallon (190 L) in the aggregate, stored on or used at the property or at the facility?

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Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

5. Are there any industrial drums, typically fifty five-gallon (208 L), or sacks of chemicals located on the property or at the facility?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, drums of solvent and lubricating oil are stored on site.

6. Is there any evidence that fill dirt has been brought onto the property?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, fill material was brought on site to bring the property to grade.

7. Are there any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

8. Is there any stained soil on the property?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, as a result of a spill which was remediated and discussed in the Level II report.

9. Are there any registered or unregistered storage tanks (above or underground) located on the property?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain Yes, there are three USTs on the property, two are empty emergency tanks to contain spills, the third is used for the storage of a kerosene based solvent. On

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300 gallon aboveground tank is used to store contaminated water from parts rinsing.

10. Are there any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, they are conjugate to the USTs.

11. Is there any evidence that underground storage tanks existed on the property in the past?

Response: ☒ Yes ☐ No ☐ Unknown
If yes, please explain: Yes, two USTs were removed from the property.

12. Are there any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

13. Is the property served by a private well?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

14. Does the property discharge waste water on or adjacent to the property, other than storm water into a sanitary sewer system?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

15. Is there any evidence of waste dumping on the property?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

16. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCB's?

Response: ☐ Yes ☒ No ☐ Unknown
If yes, please explain:

5.2 Site Interviews

Michael Freeman, Metal Marine Pilot, Inc. ~~Owner~~ President

Michael Freeman provided information concerning the history of the structures on the subject property since approximately 1959. He also provided information regarding the business practices of Metal Marine Pilot, Inc. and Pace Inc..

Jeff Peterson Pace Ind. Inc.

Jeff Peterson provided information about previous dumping events by Pace Ind. Prior to the implementation of environmental laws, as well as information regarding a spill on the south side of the property which impacted the subject property (see Level II Site Assessment).

6.0 Property Ownership

A Metroscan is available in Appendix B and documents property ownership for this site.

7.0 Findings, Conclusions & Recommendations

CETI did discover evidence of contamination on the subject property and several properties near the subject property that could pose an environmental threat.

Interviews with Mr. Michael Freeman identified several areas where chemical wastes were buried in the properties open area east of the building. Mr. Freeman showed CETI technicians the approximate locations where several holes were had excavated, lined with lime and the chemical waste buried. Mr. Freeman also located several areas where used mercury vapor lights were dumped. Past practices in cleaning equipment and disposing of solvents were discussed with Mr.

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Freeman. CETI learned that one area in the rear of the building was used as a rinse area and waste solvents would run off the cleaning area and impact down gradient soils. These areas Mr. Freeman has identified warrant further investigation to delineate the extent of contamination and possible groundwater impact.

Empty drums that once contained petroleum products were observed at several locations. These locations are comprised of the lean-to shed on the east side of the property and the area between the paint storage shed and the cardboard storage shed. A drum leaking what appeared to be lubricating oil was observed in the lean-to shed. CETI recommends these materials be removed from the property and disposed of properly.

A hydraulic test facility, hydraulic doors, an air compression system, a solvent recovery system, and a kerosene solvent recycling system were all observed to be operating properly. CETI recommends that this equipment be monitored carefully should it remain on the property, to insure against leakage of any contaminants.

CETI was informed that residue which accumulates in the evaporator and stored in 55-Gallon drums still resides on the property. CETI recommends that this residue be disposed of properly.

CETI notes that the subject property is covered either by buildings or asphalt and concrete where hazardous materials are used. If any of the minor amounts of hazardous materials noted in this report (such as lubricating oils, kerosene, stove oil, paints, and solvents) were spilled in the past it is unlikely (although not impossible) that the spills impacted the underlying soils.

Pace Puget, the northern adjacent property, warrants further attention. 2101 Mildred St. West (Site 2) has had waste dumping events in the past, and recently spilled an unknown quantity of paraffin based lubricating oil. CETI supervised a remedial action by Pace Puget to remove all released contaminant from Metal Marine's property on April 14, 1999. A separate remedial action report was written by CETI. At the time of this report, only the Metal Marine property has been characterized and remediated. There still exists an unknown amount of contamination on the Pace side of the property line.

In conclusion, CETI did find evidence of current contamination on the subject property. Potential sources of contamination were identified, as outlined above, and the appropriate recommendations should be followed regarding them. Additional, undetected contamination or environmental liability may exist. Such contamination/liability could be found at localized portions of the site that are not readily observable through the commonly accepted methods of inspection that have been defined and discussed within this report.

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Creative Environmental Technologies, Inc. extends its appreciation for the opportunity to provide environmental services on this project. If there are any questions regarding this report please do not hesitate to contact us.

Respectfully Submitted,

By: _____

Fritz Carmine
Environmental Geologist
Creative Environmental Technologies, Inc.

Approved By: _____

Steven M. Spencer

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Appendix - A

Site Location Map, Site Maps 1 & 2, Site Photographs

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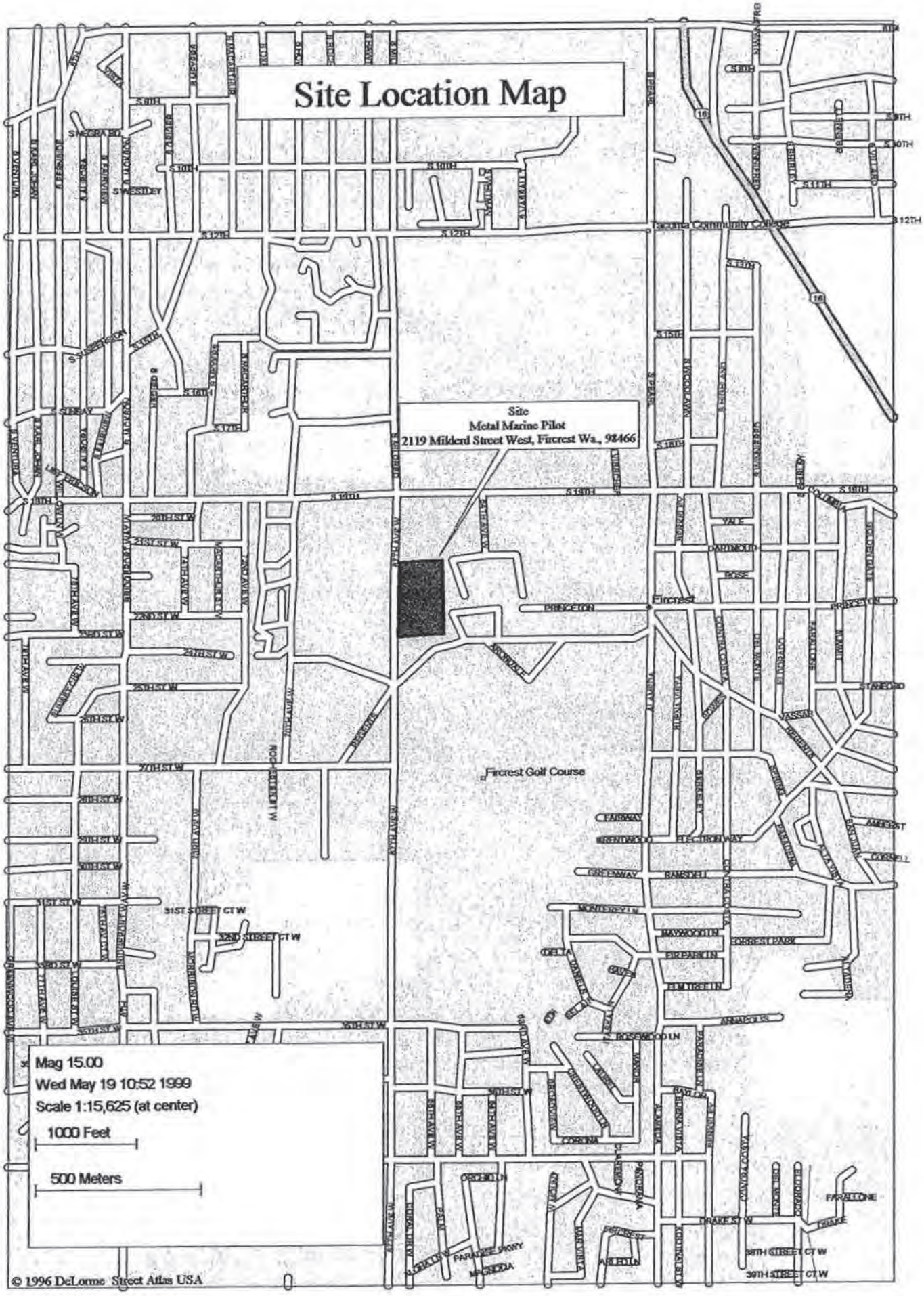
Site Location Map



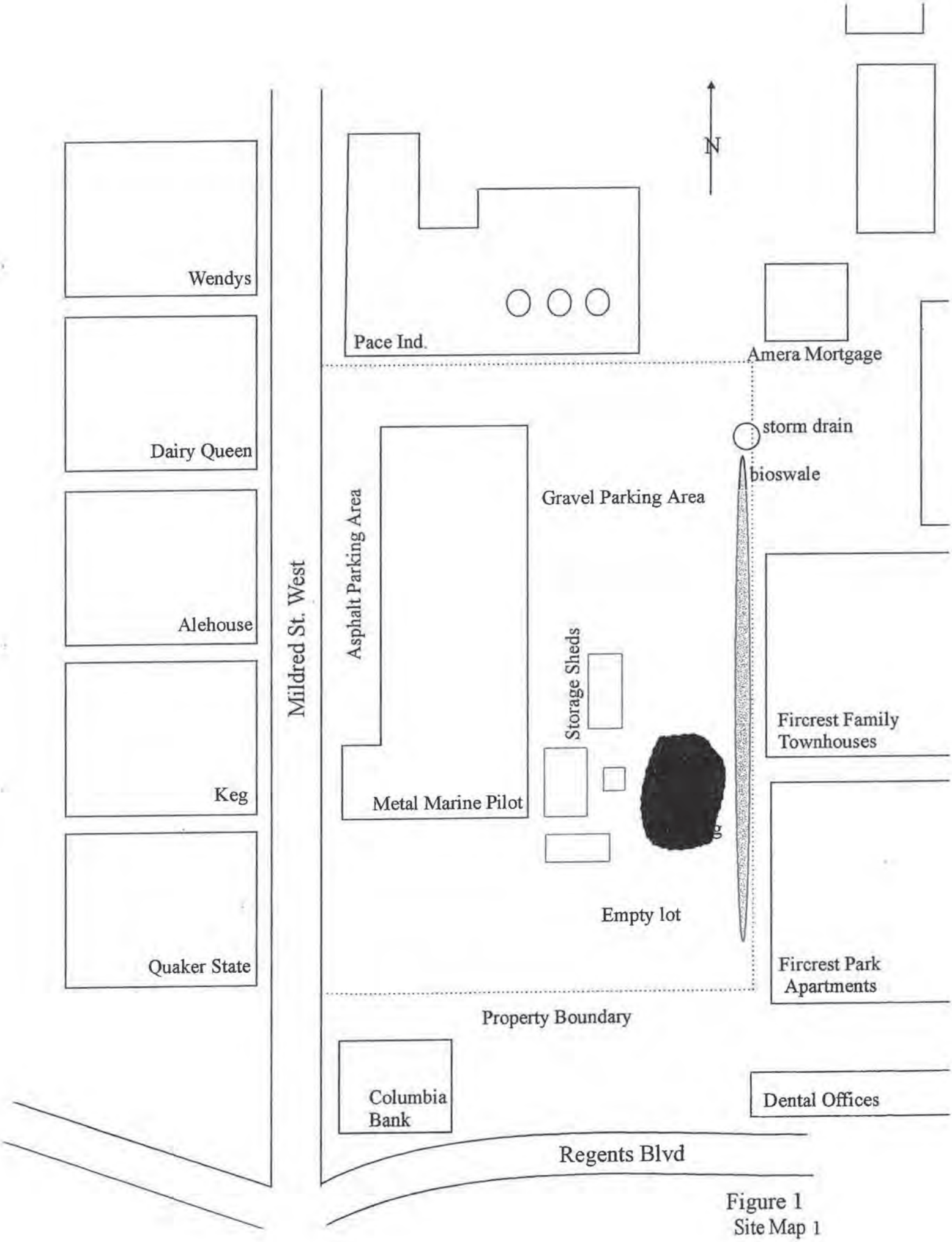
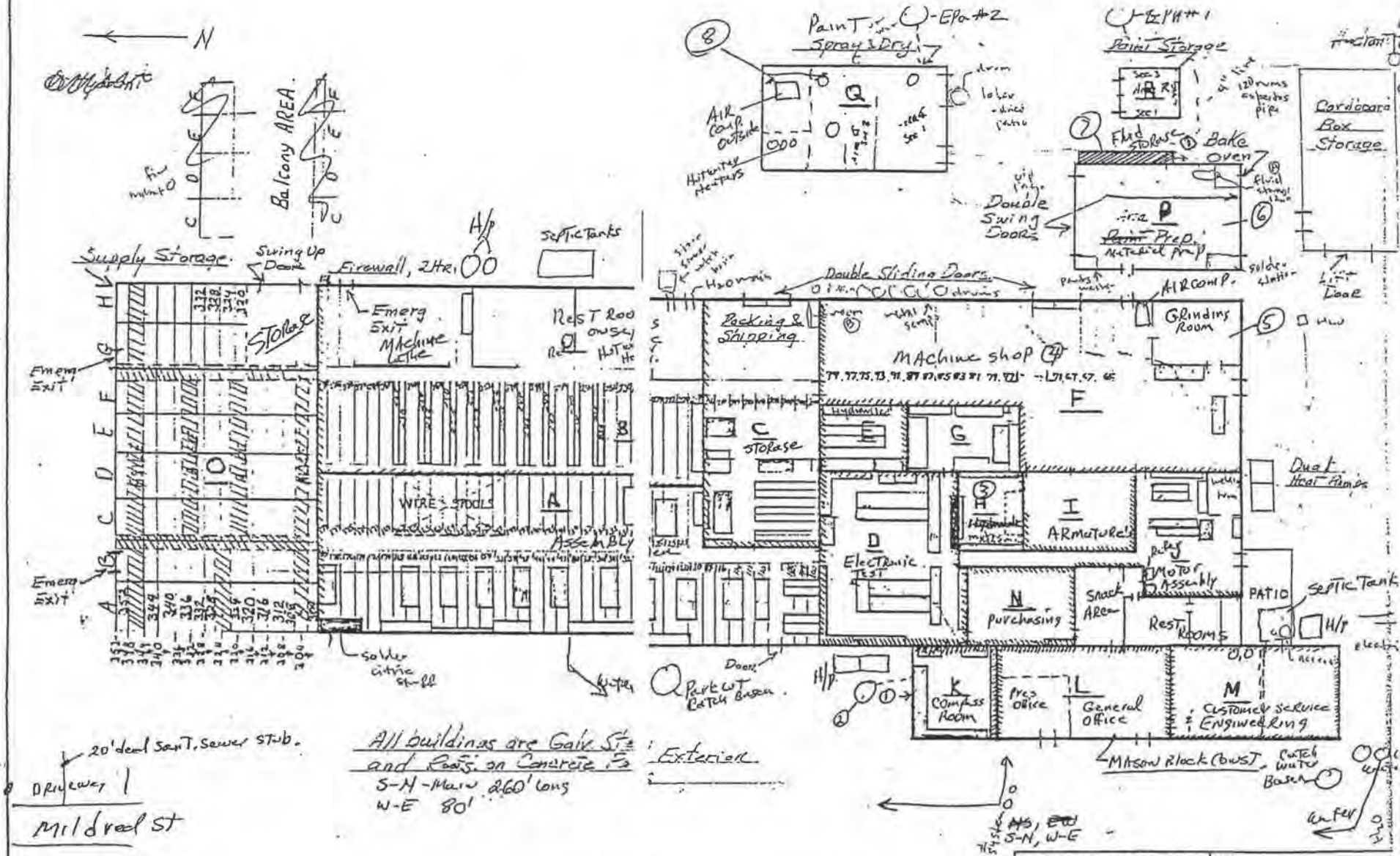


Figure 1
Site Map 1



① - 5/8" Copper Line - under EVCs - Carries clean CheuRow 410-DSB - c Pos. Pres. Pump. 10min Timer.

② underground - water Heater 60gal - Glass Lined - used as catch T k from Compass Room

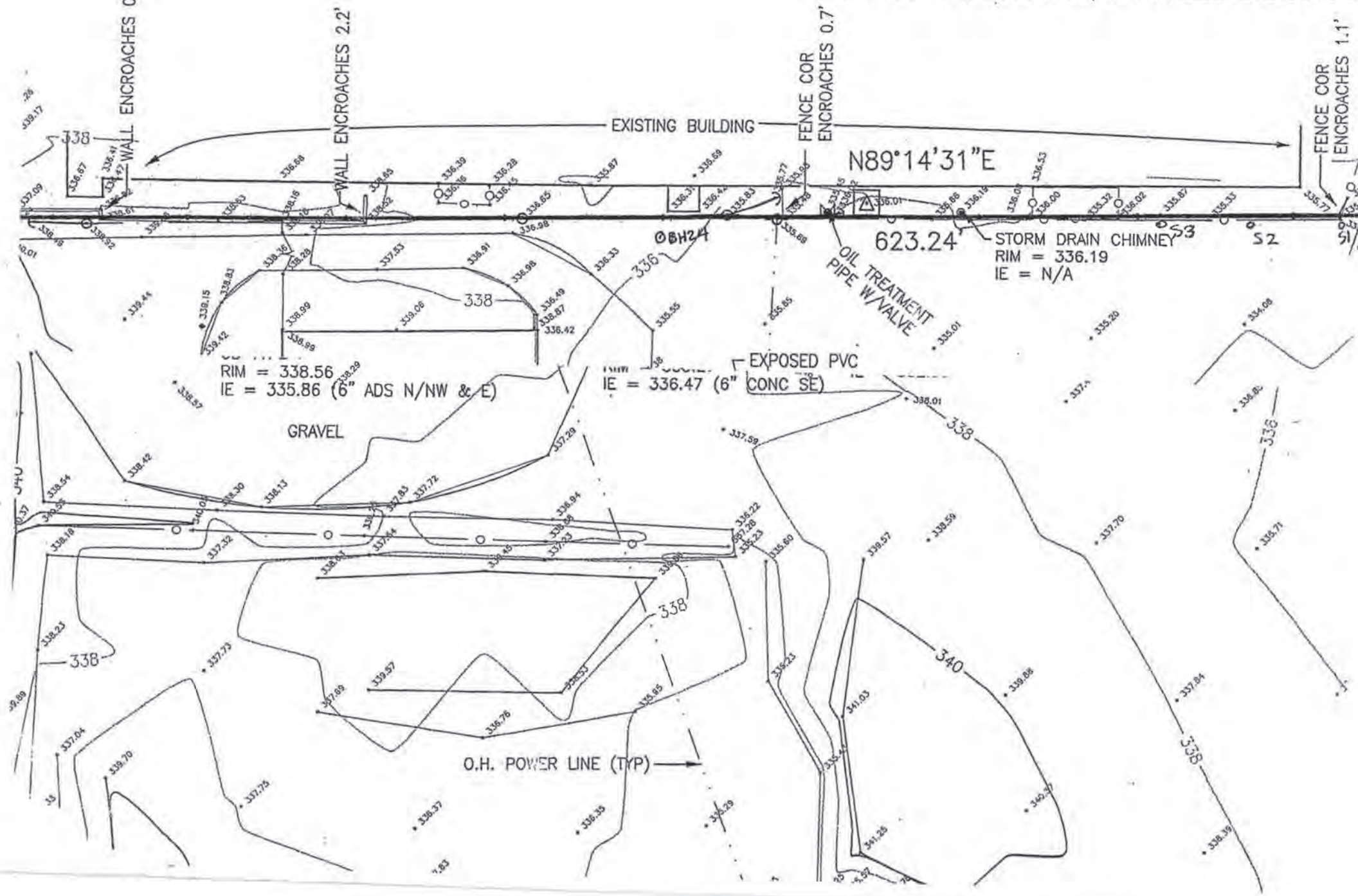
③ Hydraulic's Room - DexRon II Fluid used - Floor cleaned w/che 110 DSD - No Floor Drains, Cracks or Joints

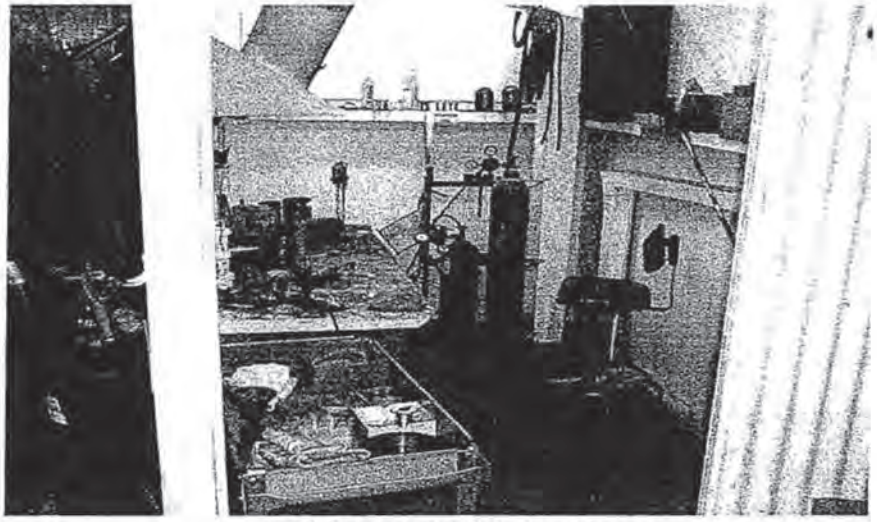
④ W/S Lube oil for cutting - Recycled at machines: or Portable Pu

METAL MARINE PILOT, INC. 2119 South Mildred Street Tacoma, Wash. 98465	FOR: INVENTORY
SCALE: 1"=80' DATE: 5/17/93	MACHINE NO. AREAS
DRWN: MWF CK:	
GENERAL	
PREFIXES	TITLE
REVISIONS	
ASSEMBLY	NO.

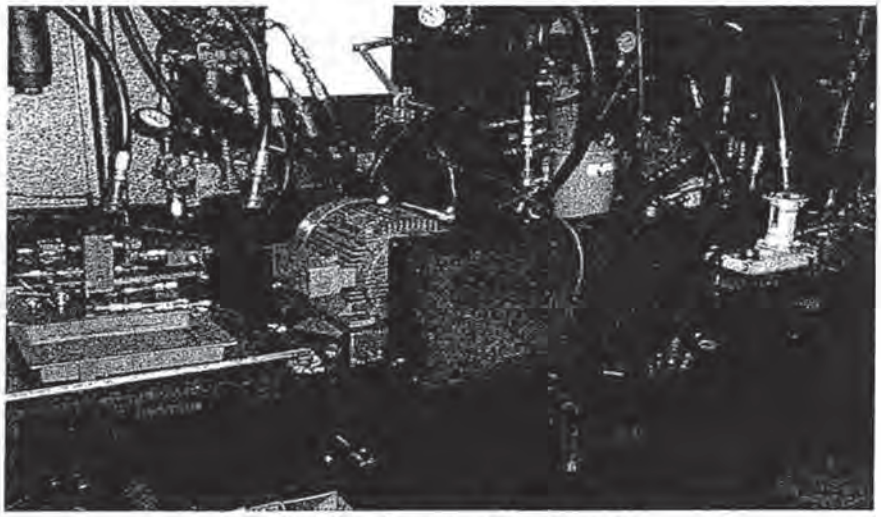
PORTION OF THE NW 1/4 OF THE NW 1/4, SE

CITY OF FIRCREST, PIERCE COUNTY





Welding and Soldering Room

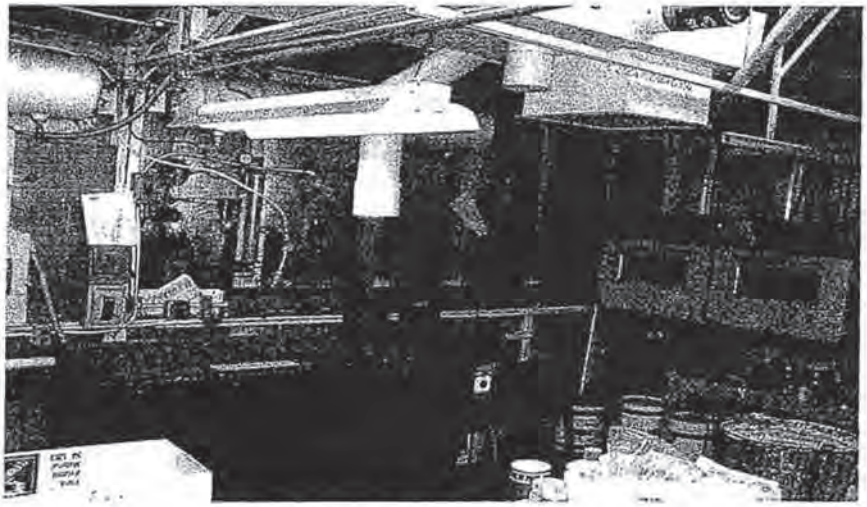


Hydraulic Systems Test Bench

Machine Shop

Site Photographs
Level 1 Environmental Site Assessment
Metal Marine Pilot
2119 Mildred Street

Fluid Storage Lean -To



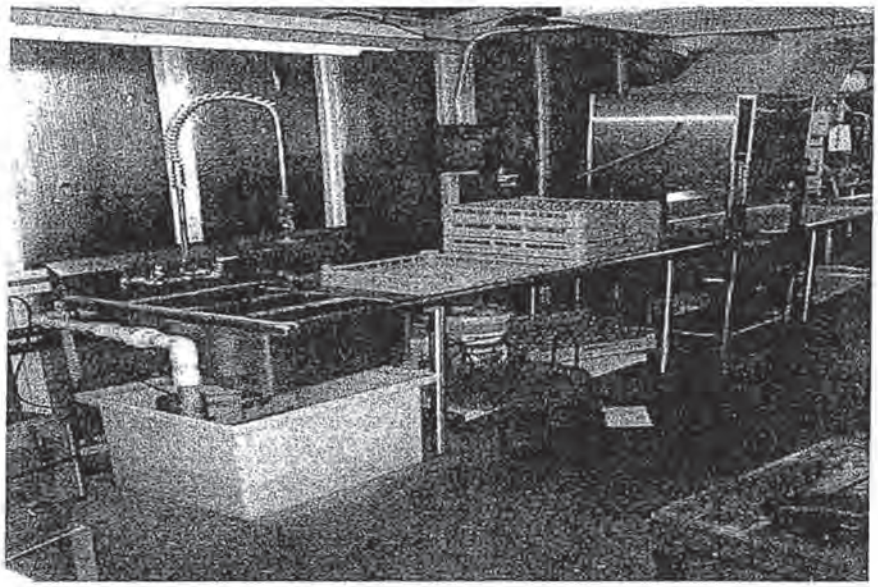
Evaporator and Recovery System

Evaporator Recovery Tank and Drum Storage in Lean-To

Site Photographs
Level 1 Environmental Site Assessment
Metal Marine Pilot
2119 Mildred Street

Storm Drain on South End of Building Site of Removed USTs

Drains in Floor of Paint Shop which Lead to Recovery Tank



Parts Washing Facility

Site Photographs
Level 1 Environmental Site Assessment
Metal Marine Pilot
2119 Mildred Street

Varnish Dip Facility

Appendix - B

Metroscan and Plat Maps

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=METROSCAN PROPERTY PROFILE=
Pierce (WA)

OWNERSHIP INFORMATION

Account Number :022011 200 5 R:02E T:20N S:11 Q:NW QQ:NW
Bldg Id Number :1 of 1
Record Type :Unplatted
Owner/Taxpayer :Freeman Robert M
CoOwner :
Site Address :2119 Mildred St W Fircrest 98466
Mail Address :2119 Mildred St W Fircrest Wa 98466
Telephone :Owner:253-564-5902 Tenant:

SALES AND LOAN INFORMATION

Recording Date	:01/01/53	Loan Amount	:
Auditors Fee #	:	Loan Type	:
Sale Price	:$3,950	Lender	:
Vesting Type	:	Interest Rate	:
Deed Type	:	% Owned	:

ASSESSMENT AND TAX INFORMATION

Land	:$1,039,000	1998 Taxes	:$20,565.46
Structure	:$189,600	Senior Tax	:
Timber	:	Excise Tax #	:
Total	:$1,228,600	Utility District	:
% Improved	:15	School District	:010
Levy Code	:063	Fire District	:03

PROPERTY DESCRIPTION

Map Page & Grid :772 H7
Census :Tract:723.05 Block:1
Neighborhood Cd :
Zoning Code :G
Land Use :3510 Mfg,Professional,Scientific
Auditor Number :
Building Name :Metal Marine Pilot
Sub/Plat :
Legal :SW OF NW OF NW SUBJ TO CY OF TAC
:EASE LESS R/W FOR RD
:

Vol: Page:

The Information Provided Is Deemed Reliable, But Is Not Guaranteed.

= METROSCAN PROPERTY PROFILE =

Pierce (WA)

Account Number:022011 200 5 Building Id Number:1

PROPERTY CHARACTERISTICS

Bedrooms	:	1st Floor SqFt	:	Lot Acres	:9.49
Bath Full	:	2nd Floor	:	Lot SqFt	:413,384
Bath 3/4	:	Attic SqFt	:	Year Built	:1968
Bath 1/2	:	AboveGround SF	:	EffYearBlt	:1968
Family Rm	:	Primary MezzSF	:	Roof Type	:
Floor Cvr	:	Second Mezz SF	:	Foundation	:
Fireplace	:	Bsmnt Fin SqFt	:	Constructn	:Concrete
Porch	:	Bsmnt Unfin SF	:	Quality	:Low Cost
Patio	:	Bsmnt Tot SqFt	:	Bldg Cond	:Avg
Pool	:	Building SqFt	:23,728	HeatMethod	:Space Htr
Stories	:1	Deck SqFt	:	ElectrcSvc	:Yes
Units	:	Porch SqFt	:	Water Srce	:Yes
GarageTyp	:	Patio SqFt	:	Sewer	:Yes
Bldg Type	:Ind Bldg	Garage SqFt	:	St Access	:Std
				StreetType	:Paved
				View Qlty	:
				Bsmnt Type	:
				OtherImprv	:Yes
				ImprvdType	:
				DevelopTyp	:Comm
				Wall Type	:

SECONDARY BUILDING STRUCTURE

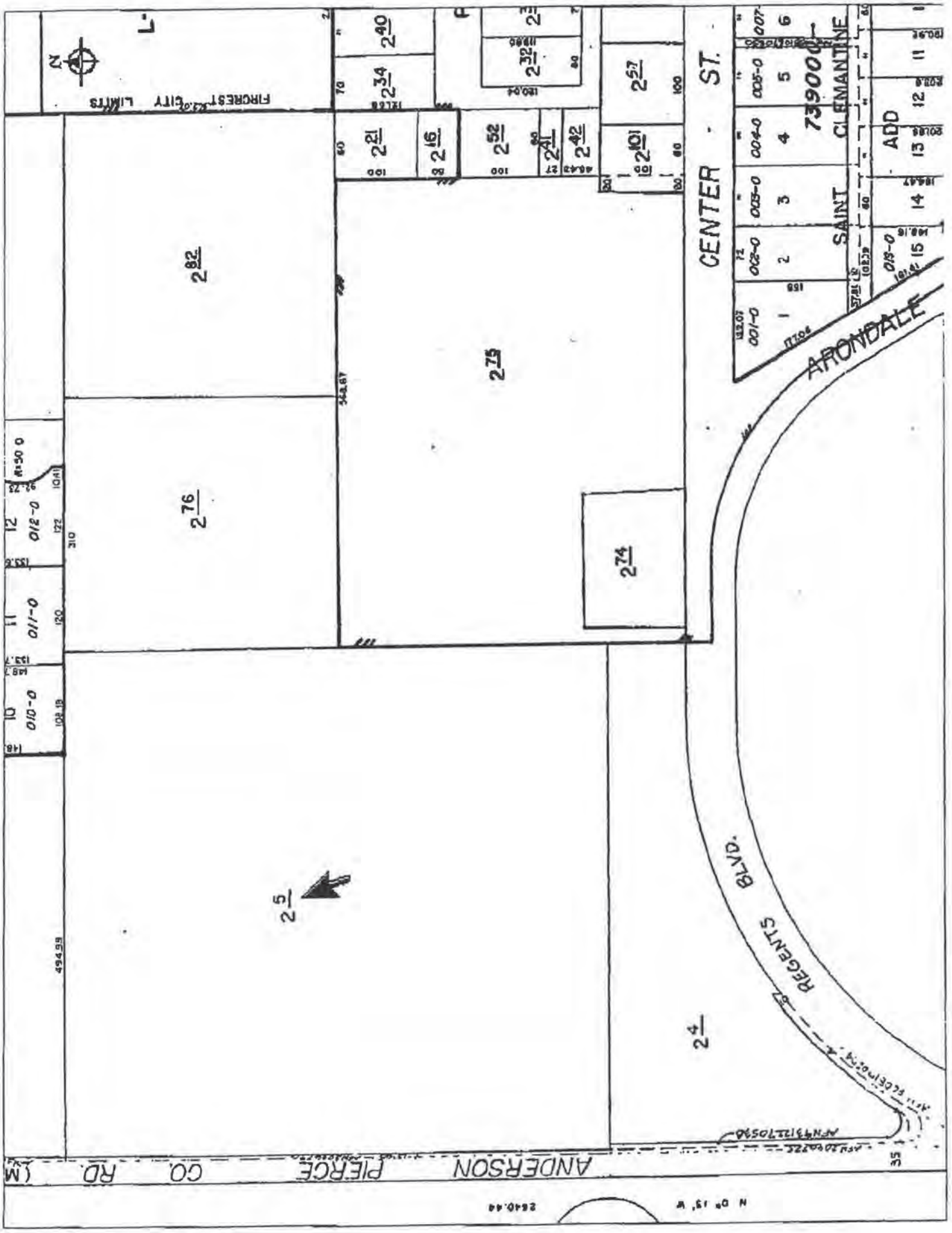
Year Built	:1975	Bsmnt Fin SF	:
Construction	:Wood\Steel	BsmntUnFinSF	:
Bldg Condition	:Avg	Bldg SqFt	:837
Quality Class	:Avg	Stories	:
Heating Method	:	Unit Number	:
Cooling Method	:	BuildingType	:Warehouses

OTHER INFORMATION

Waterfront Type	:	Fence Type	:Chain
Lot Frontage	:	Fire Sprinklers	:No
Bsmnt ParkingSF	:	Elevator	:

RENTAL INFO		PERMIT INFO		BUILT-INS	
Kitchens	:	Amount	:	Range/Oven	:
Rental SqFt	:24,565	Date	:	Hood/Fan	:
Inspected	:11/12/1986	Dishwasher	:		
Vacuum	:				

The Information Provided Is Deemed Reliable, But Is Not Guaranteed.


CENTER ST.
ARONDALE
BLVD.
REGENTS
SAINT CLEMENTINE ADD
ANDERSON
PIERCE
CO. RD.
FIRCREST CITY LIMITS
N
2 82
2 75
2 76
2 74
2 5
2 4
2 40
2 34
2 32
2 57
2 21
2 16
2 52
2 41
2 42
2 101
0-210
0-110
0-010
73900

Appendix - C

EDR Report

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425-562-4201
Fax TO: Ted Sykes

ENVIRONMENTAL QUESTIONNAIRE

Site Address:

2119 Mildred Street West
Fircrest, Washington

ENGINUITY
CREATIVE COLLABORATIVE SOLUTIONS

Janet Freeman-Daily
MIT SB, Caltech MS & Engineer

3512 SW 310th Court
Federal Way, WA 98023-2199
janet.f-d@comcast.net

(253) 606-2173
Fax (253) 874-2302
Home (253) 838-6623

re: 2119 Mildred Street
Fircrest, WA

Question	Owner's Answer
1. What year did the current owner purchase the Property?	1953

2. Who was the previous site owner and what was the property's use during the time the current owner purchased the Property?

Previous owner unk - use open country undeveloped.

3. Did the previous owner of the Property disclose or inform the current owner of any environmental issues that had occurred on the Property? Yes (No) Unk[1]

NO

4. What is the Property's current use?

Storage of Personal Family Property including Equipment for Sale

5. What types of commercial or industrial activities have occurred on the property in since the current owner purchased the site?

Manufacturing of MARINE AUTO PILOTS & NAVIGATION AIDS And Related Activities

6. Has any adjoining property been used for an industrial use in the past? (Yes) No Unk

Yes, Property to the North, "PACE"/PUGET CORP/PUGET DIECASTING

[1]Unk = Unknown or No Response

Question	Owner's Answer
7. To the best of your knowledge, has the Property or any Adjoining Property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes (No) Unk

No (one diesel tank on property for personal use (was removed years ago))

8. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the Property or at the facility?	(Yes) No Unk

Yes, - AeroShell Motor oil, ~~Shell~~ Cheron 410B Solvent type A, Dexron III oil, perchloroethylene, trichloroethylene, various paints ~~[illegible]~~, mercury contactors (enclosed), diesel fuel

9. Are there currently, or to the best of your knowledge have there been previously, any industrial Drums (typically 55 gallon) or sacks of chemicals located on the Property or at the facility?	(Yes) No Unk

yes, removed and disposed of by licensed hazmat handlers

10. Has Fill Dirt been brought onto the Property which originated from a contaminated site or which is of an unknown origin?	(Yes) No Unk

Unknown origins

[1]Unk = Unknown or No Response

Question	Owner's Answer
11. Are there currently, or to the best of your knowledge have there been previously, any Pits, Ponds or Lagoons located on the Property in connection with waste treatment or waste disposal?	(Yes) No Unk

Yes - 3 or 4 pits - Lime

12. Is there currently, or to the best of your knowledge has there been previously, any stained soil on the Property?	Yes No (Unk)

unk - what is "stained"?
(some ~~seata~~ contaminated soil was removed - see remediation report provided to buyer)
neighbor to North discharged hydrocarbon fluids, cleaned up ~1999

13. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the Property?	(Yes) No Unk

A Yes - Removed Diesel & 410B solvent
B yes - 2 "vaults" for closed water recovery still onsite
yes - removed empty tank (old hot water tank) - see remediation report provided to buyer

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground on the Property or adjacent to any structure located on the Property?	Yes No Unk

Yes - Removed see # #13A

[1]Unk = Unknown or No Response

Question	Owner's Answer
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	(Yes) No Unk

A Yes - In Machine Shop Area - Milling Machine Partions Above "cutting oil" Spatter on them
Yes - Hydraulic Room - Dexrow III oil on walls
No odors from Any

13. If the Property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environmental/health agency?	Yes No Unk

DNA - does not apply (on City Water)

14. Does the Owner or Occupant of the Property have any knowledge of Environmental Liens or governmental notification relating to past or current violations of environmental laws with respect to the Property or any facility located on the Property?	Yes (No) Unk

None

15. Has the Owner or Occupant of the Property been informed of the past or current existence of Hazardous Substances or Petroleum Products of environmental violations with respect to the Property or any facility located on the Property?	(Yes) No Unk

~~No~~, see Level 1 and Level 2 environmental assessments provided to buyer

[1]Unk = Unknown or No Response

Question	Owner's Answer
16. Does the Owner or Occupant of the Property have any knowledge of any Environmental Site Assessment of the Property of facility that indicated the presence of Hazardous Substances or Petroleum Products on, or contamination of, the Property or recommended further assessment of the property?	(Yes) No Unk

see answer to #15

17. Does the Owner or Occupant of the Property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any Hazardous Substance or Petroleum Products involving the Property by any Owner or Occupant of the Property?	Yes (No) Unk

NO

18. Does the Property discharge waste water on or adjacent to the Property other than storm water or into a sanitary sewer system?	Yes (No) Unk

NO

19. To the best of your knowledge, have any Hazardous Substances or Petroleum Products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the Property?	(Yes) No Unk

See # 11 - clean fills, some asphalt

[1]Unk = Unknown or No Response

Question	Owner's Answer
20. Is there a transformer, capacitor or any hydraulic equipment for which there are any records indicating the presence of PCBs?	Yes No (Unk)

Possibly - Transformers on pole SE Corner of building, Content unknown - One exploded several years ago - Ground cleaned up city light - approx 1950's Early.

The Preparer of the Environmental Questionnaire must complete and sign the following statement.

THIS QUESTIONNAIRE WAS COMPLETED BY

Name Janet Freeman-Daily
Title Manager
Firm Robert & Ethel Freeman Family LLC I
Address 3512 SW 310TH CT
Federal Way, WA 98023

Phone Number (253) 606-2173

PREPARER (LISTED ABOVE) REPRESENTS THAT TO THE BEST OF THE PREPARER'S KNOWLEDGE THE ABOVE STATEMENTS AND FACTS ARE TRUE AND CORRECT AND TO THE BEST OF THE PREPARER'S ACTUAL KNOWLEDGE NO MATERIAL FACTS HAVE BEEN SUPPRESSED OR MISSTATED.

Janet E. Freeman-Daily
Signature

18-Apr-2005
Date

[1]Unk = Unknown or No Response

-Permit Issue Date-
19940222

DATE: 2/22/94

PIERCE COUNTY
2401 S 35th ST
TACOMA, WA 98409

www.piercecountywa.org/pals

-Permit No-
175103

***** THIS IS A REFERENCE FILE COPY *****

Flam/Comb Lqd Rmv/Abandon Tank

Valid from dates: 02/22/1994 thru 05/22/1994

Issued by Pierce County giving: DON GOLDEN CO INC
permission according to approved plans, application, and restrictions
on record to: REMOVE (1) 1000 GAL UG DIESEL STORAGE TANK &
(1) 1000 GAL UG SOLVENT STORAGE TANK
* SEE ATTACHED REQUIREMENTS *
Shall comply with attached FPB's requirements &
Article 79 of 1991 Uniform Fire Code.
cc: Pierce Cty FPD #3
Dept of Ecology
Health Dept - M. Schreiner

Project Name: METAL MARINE PILOT INC

Site Address: 2119 MILDRED ST W
RTSQQ: 02201122 IArea:03
Sch District: 010 Tacoma
Parcel: 0220112005
Property
Owner: FREEMAN ROBERT M
2119 W MILDRED ST
TACOMA WA 98466

Applicant: DON GOLDEN CO INC
4704 S WASHINGTON
TACOMA WA 98409
Bus: (253) 474-0148

Zone:
Fire D/A: 03 A

***** THIS IS A REFERENCE FILE COPY *****

NOTE: Pierce County's approval (issuance) of this application / permit or decision pertains only to the County's regulatory jurisdiction and thus compliance with County regulations does not necessarily ensure compliance with other federal or state laws.

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;W    PIERCE COUNTY   Q;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;W
    Form: APPLLIST3  dc331t: DEVELOPMENT CENTER :THU, APR 14, 2005,  3:09 PM :
Operator: MSMIT-C          A;;;;;;;;;;;;;;;;;;;;;SNumber of Appls:5          :
 Printer: RLP27        ***  List of Applications  ***                        :
Rec# Type St Start Dt Close Dt Project Work Description              Appl # :
                                                                              :
   1 PLUM PP 19920821 20050129 INSTALL NEW GAS WATER HEATER          136411 :
                                                                              :
   2 FCFI FN 19930122 19950906 OPERATE INSTRUMENT STORE              146734 :
                                                                              :
   3 FBSO FN 19930122 19950906 SPRAY FINISHING OPERATION             146736 :
                           REQUIREMENTS:                                      :
   4 FBFU FN 19930122 19950906 USE/HANDLE COMBUSTIBLE LIQUIDS        146737 :
                           REQUIREMENTS:                                      :
   5 FBFR FN 19940222 19940307 REMOVE (1) 1000 GAL UG DIESEL STORAGE TA175103 :
                           (1) 1000 GAL UG SOLVENT STORAGE TANK               :
   0                                                                          :
                                                                              :
   0                                                                          :
                                                                              :
    Select Application to list: [0          ]                                 :
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;S
```

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGR)ND STORAGE TANK TEMPORARY/PERMANENT CLOSURE and SITE ASSESSMENT NOTICE

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

For Office Use Only
Owner # U000474
Site # 005902

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

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tanks are registered): 005902

Site/Business Name: Metal Marine Pilot, Inc.

Site Address: 2119 Mildred Street West (Street) Telephone: (206) 564-5902

Tacoma, WA 98466-6135 (City, State, ZIP-Code)

TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
#1	3/4/94	1000	Solvent
#2	3/4/94	1000	Diesel

RECEIVED MAY 12 1994 ECOLOGY

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: Metal Marine Pilot, Inc.

Owners Signature: Robert M. Freeman Telephone: (206) 564-5902

Address: 2119 Mildred St. W (Street, P.O. Box)

Tacoma WA WA 98466-6135 (City, State, ZIP-Code)

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Service Provider: Don Golden Company Inc. License Number: S000055

Licensed Supervisor: Don Golden Decommissioning License Number: W000688

Supervisors Signature: [signature]

Address: 4704 So Washington (Street, P.O. Box)

Tacoma Washington 98409 (City, State, ZIP-Code)

Telephone: (206) 474 0148

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Name of Registered Site Assessor: Don Golden

Telephone: (206) 474 0148

Address: 4704 So Washington (Street, P.O. Box)

Tacoma Washington 98409 (City, State, ZIP-Code)

ECY 020-34

PLEASE READ CAREFUL

INSTRUCTIONS

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

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

Return this completed form to:

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

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

SITE INFORMATION:

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

TANK INFORMATION:

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

UST SYSTEM OWNER/OPERATOR:

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

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

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

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

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

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

Tanks exempt from notification requirements are:

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

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

Tanks with a capacity of 110 gallons or less.

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

Emergency overflow tanks, catch basins, or sumps.

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

PIERCE COUNT
PLANNING
& LAND
SERVICES
02-22-94 3:25PM
175103
FIRE ART IV 30.00
SUB TTL 30.00
TOTAL 30.00
CHECK 30.00
CHANGE 0.00
MICHELOIA IR 36

-Permit Issue Date
940222

---Permit No.---
175103

For information call: 591-7179

Flam/Comb Tank Removal Permit

This permit is Valid from: 02/22/94 through 05/22/94

Issued by Pierce County giving: DON GOLDEN CO INC
permission according to approved plans, application, and restrictions
on record to: REMOVE (1) 1000 GAL UG DIESEL STORAGE TANK &
(1) 1000 GAL UG SOLVENT STORAGE TANK
* SEE ATTACHED REQUIREMENTS *
Shall comply with attached FPB's requirements &
Article 79 of 1991 Uniform Fire Code.
cc: Pierce Cty FPD #3
Dept of Ecology
Health Dept - M. Schreiner

Project Name: METAL MARINE PILOT INC

Site Address: 2119 MILDRED ST W

RTSQQ: 02201122
Parcel: 0220112005

Property
Owner: FREEMAN ROBERT M
2119 W MILDRED ST
TACOMA WA 98466

Applicant: DON GOLDEN CO INC
4704 S WASHINGTON
TACOMA WA 98409

Bus: (206) 474-0148

Business:
Occ group: Const type: SF: 901: Fire D/A: 03A

Not valid without authorized signature.

-------Fee Description-------	--Quantity--	-----Value-----
FLAM/COMB TANK REMOVAL	2	30.00
	Total fees =	30.00
	Base permit fee =	30.00
	Total Permit Amount =	30.00
	Total fees =	30.00
	Total paid =	30.00-

CONTINUED ON PAGE 2

UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure activities. It must be signed and dated by either the owner/operator of the UST to be closed or his/her authorized representative. (This could be the firm contracted to do the work.) Ecology will notify the identified person of the earliest date closure/decommissioning activities may commence.

For questions on completing this form please call (206) 459-6293.

Please type or use ink.

The completed checklist should be mailed to:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. TANK OWNER AND LOCATION

UST Owner/Operator: Metal Marine Pilot, Inc. (U0004674)

Owners Mailing Address: 2119 Mildred Street West (Street) P.O. Box

Tacoma, (City) WA (State) 98466-6135 (ZIP Code)

Telephone: (206) 564-5902

Site ID Number (on invoice or available from Ecology if tank is registered): Please refer to attached for Site # Copy not legible

Site Business Name: Metal Marine Pilot, Inc. (U0004674)

Site Address: 2119 Mildred Street West (Street) Pierce (County)

Tacoma, (City) WA (State) 98466-6135 (ZIP Code)

DEPARTMENT OF ECOLOGY UNDERGROUND STORAGE TANKS JAN 07 1994

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (If known)

Firm: Don Golden Company Inc.

Address: 4704 So Washington (Street) P.O. Box

Tacoma, (City) WA (State) 98409-2825 (ZIP Code)

Telephone: (206) 474- 0148 Contact Name: Don Golden

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
#2 See Attached	February 10, 1994	1000	12 years	Diesel
#1 See attached	February 10, 1994	1000	12 years	Solvent

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE:

Signature: Don J. Golden Title: President Date: 12/23/93

ECY 101 155 11/90

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

SN

For Office Use Only
Owner # 4000941174
Site # 005902

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): 005902

Site/Business Name: Metal Marine Pilot, Inc.

Site Address: 2119 Mildred Street West (Street) Telephone: (206) 564-5902

Tacoma (City) Washington (State) 98466-6135 (ZIP-Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
#1	1000	Solvent
#2	1000	Diesel

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): ____

RECEIVED
JUN 22 1994
ECOLOGY

ECY 010-158

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

SITE ASSESSOR INFORMATION

DON GOLDEN
PERSON REGISTERED WITH ECOLOGY

DON GOLDEN CO., INC..
FIRM AFFILIATED WITH

BUSINESS ADDRESS: 4704 So Washington

TELEPHONE: (206) 474 0148

Tacoma — CITY
WA — STATE
98409-2825 — ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check / site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

5/7/94
Date

Signature of Person Registered with Ecology

40004074
005902

SW 1/2

Pierce County Health Dept.
3629 South "D" Street
Tacoma, WA 98408

REQUIREMENTS FOR UNDERGROUND STORAGE TANK SITEASSESSMENT/TANK CLOSURE REPORT

Owner and Site Address: Metal Marine Pilot
2119 Mildred Street West
Tacoma, WA 98466-6135

Site#005902 Tank ID#1 1000 Gallon Solvent Tank ID#2 1000 Gallon Diesel (this tank was 850 Gallon)

Location of UST's in relation to buildings, property lines and other structures posted on diagram enclosed in this file. (Tanks were located approximately 15' from small building at site S.E. Corner).

Was one pump island

The 1000 Gallon Tank was 48"X12'. the 850 Gallon was 47"X10'
The 1000 Gallon Tank was stainless steel, the 850 Gallon was single wall steel
The condition of both tanks were excellent.
The age of tanks was 12 years old.

Piping for the stainless steel was copper and the piping for the single wall steel was Schedule 40 Galvanized.
The pumps had been removed years ago.

Geological information, the tanks had been placed on a bedding of crushed rock and backfilled with crushed rock.

The excavated pit bottom was dry-no water

Dimensions of UST'S excavation was 10'X26' and 8'deep.
Location of all soil samples, W floor, E floor, E wall, S wall, N wall, W wall, Comp. W small pile excavated soil, Comp. W large pile excavated soil, Comp. E large pile excavated soil. Wall samples taken approximately 3' from pit floor.
No odors detected.

Sampling method-backhoe & hand tool
Type of samples were grab on walls & floor, composite on excavated soil piles.

Sound Analytical Services Inc. of 4813 Pacific Highway East, Tacoma, WA 98424 was the Analytical Laboratory.

Results of analytical testing posted on diagram enclosed in this file

Waste Disposal, Inc. cleaned tanks

All results of soil analyses were within acceptable levels.

Excavated area was backfilled.

Conclusion - Site is clean - Job completed 4/8/94

Don Golden, Site Assessor

Enclosures:
Copy of Site Check/Site Assessment
Reporting Requirements data (DOE)
Vicinity map
Diagram of UST'S location and surrounding area
Diagram showing where soil samples were taken & results posted
Copy of laboratory results
Copy of tank cleaning

DEPARTMENT OF ECOLOGY

Reporting Requirements - Underground Storage Tanks Removal

Reference to: Owner - Metal Marine Pilot
2119 Mildred Street West
Tacoma, WA 98466-6135

Site Address - Same as above

Site #005902 Tank ID#1 1000 Gallon Solvent Tank ID#2 1000 Gallon Diesel

Location of the UST'S site shown on vicinity map enclosed in this file.

Summary - Site imspection, no signs of spillage, site was clean. Tanks were located approximately 15' from small building at site S.E. Corner. The pumps had been removed years ago.

Summary - UST system, There had been 2 pumps, one for solvent used for equipment and one for diesel used for vehicles.

Soil characteristics UST site - Tanks had been placed on crushed rock and backfilled with crushed rock.

The tanks pit was dry - no water

Description of surrounding land shown on diagram enclosed in this file

There were9 soil samples taken, method used to collect samples was backhoe and hand tool, method used to analyze samples were WTPH-HCID for Gasoline, Diesel and Heavy Oil and BTEX by EPA Method 8020 for Benzene, Toluene, Ethyl Benzene and Xylenes. Sound Analytical Services, 4813 Pacific Highway East, Tacoma, Washington 98424 performed soil analyses.

A sketch showing the following items are posted on diagram enclosed in this file.
- Location and ID #'s for all field samples collected-posted on diagram
- There was not any groundwater samples taken-pit was dry.
- Samples collected from stockpile excavated-posted on diagram
- Tank and piping locations and limits of excavation-posted on diagram
- Adjacent structures and streets-posted on diagram
- Approximate location of any on-site and nearby utilities-posted on diagram

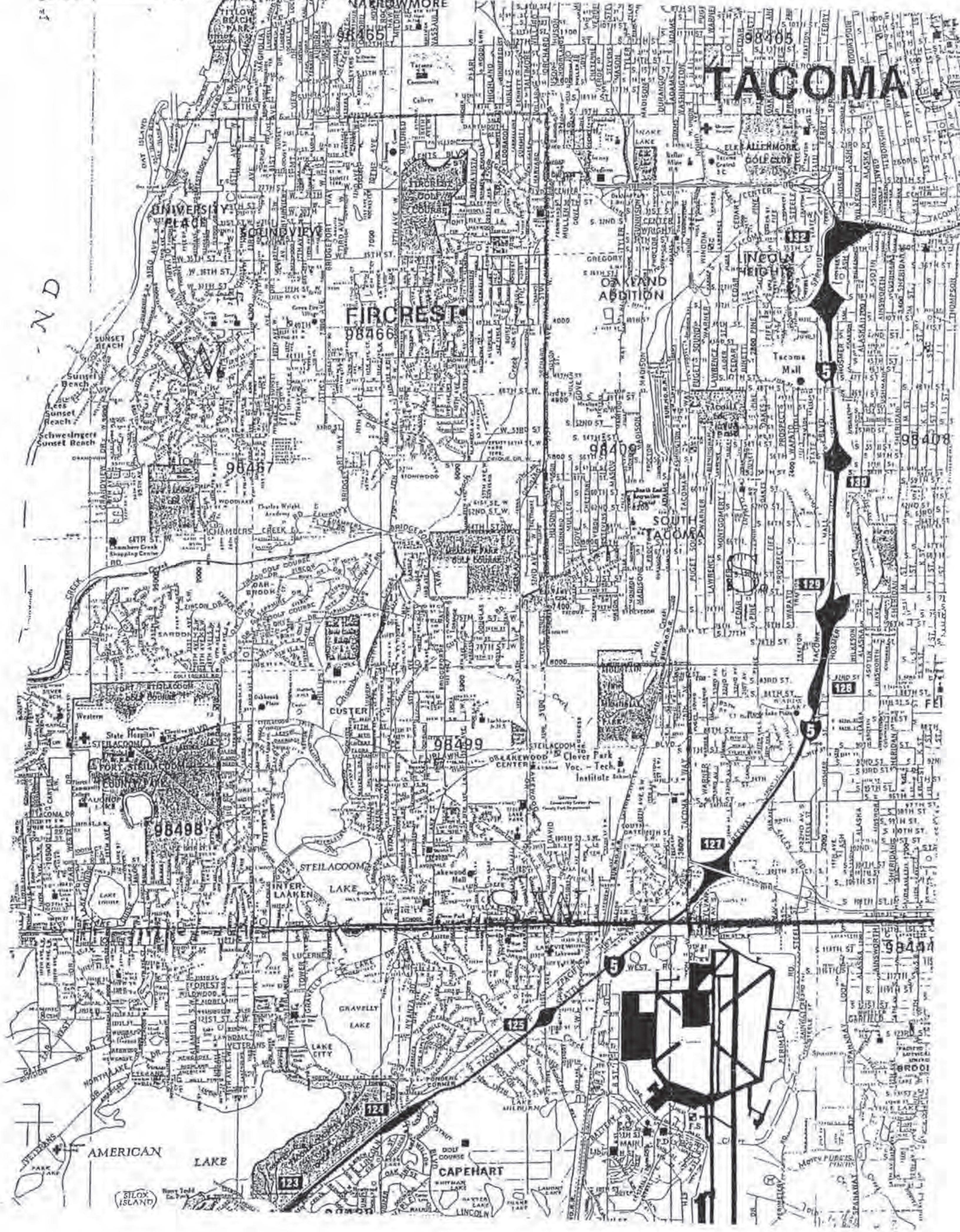
Copies of all laboratory results enclosed in this file.

All results of this site check/site assessment prove this site to be clean. All soil analyses were within acceptable levels.

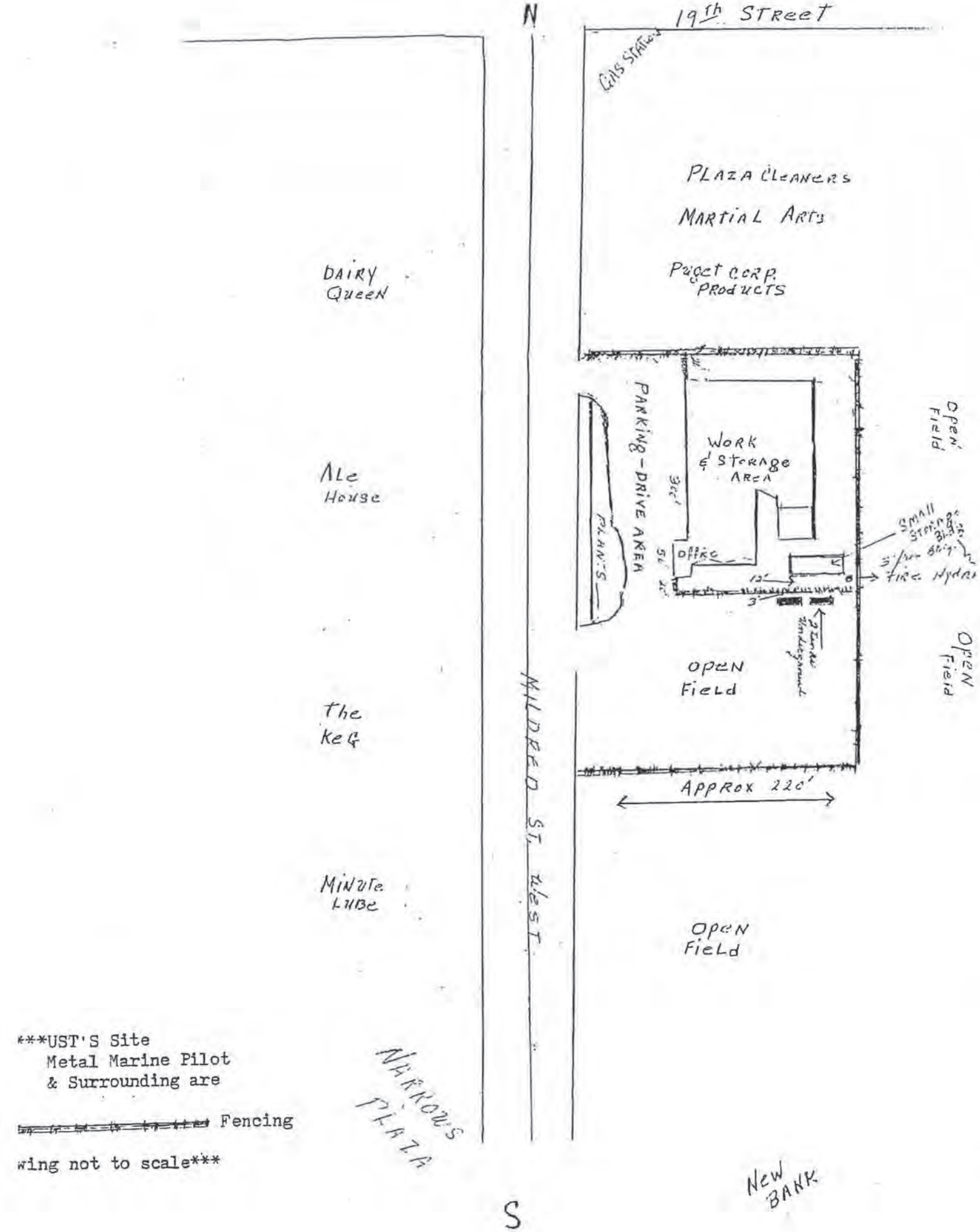
4/8/94 Backfilled pit area. Job completed.

Don Golden

Enclosures: (2 complete files)
2 - copies of Site Check/Site Assessment Checklist
Reporting requirements (this page)
Vicinity map.
Diagram of UST location and surrounding area
Diagram showing where soil samples were taken & results posted.
Copies of laboratory results
Copy of tanks cleaning
Copy of permit-Pierce County Health Dept. #94-013
Copy of permit-Pierce County Fire Marshal #175103



TACOMA
98405
98465
UNIVERSITY PLACE
SOUNDVIEW
FIRCREST
98466
FIRCREST GOLF COURSE
OAKLAND ADDITION
LINCOLN HEIGHTS
Tacoma Mall
ALLENMORE GOLF CLUB
98467
98409
98408
SOUTH TACOMA
Sunset Beach
Schwesingers Sunset Beach
CHAMBERS CREEK
STEILACOOM
State Hospital
Western
FORT STEILACOOM COUNTY PARK
98498
CUSTER
98499
LAKEWOOD CENTER
Clover Park Voc. - Tech. Institute
STEILACOOM LAKE
INTER-LAAKEN
Lakewood Mall
GRAVELLY LAKE
LAKE CITY
LUCERNE
AMERICAN LAKE
SILCOX ISLAND
CAPEHART
LINCOLN
98444



***UST'S Site
Metal Marine Pilot
& Surrounding are

Fencing

wing not to scale***

N.

Refer to surrounding area map for this small building location

SMALL STORAGE BLDG.

W.

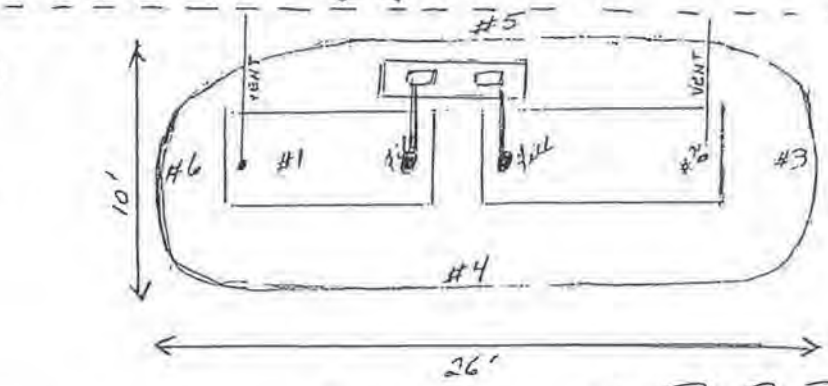
Pumps removed long ago
(Island and pumps shown)
The pump island was located above underground tanks
Vent lines to fence

10' x 26' Wide
8' deep
Excavation

Fence

approx. 12'

E.



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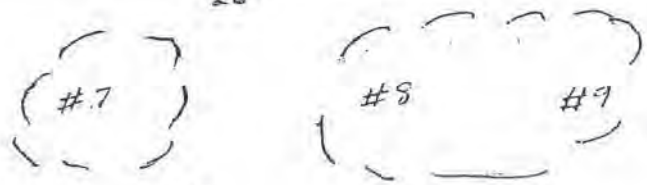

Methods
WTPH-HCID

BTEX by EPA method 8020

Sample ID#	Matrix	Location Collected	Gasoline	Diesel	Heavy Oil	Benzene	Tolulene	Ethyl Benzene	Xylenes
#1	Soil	West Floor	<20	<50	<100				
#2	Soil	East Floor	<20	<50	<100	ND	ND	ND	ND
#3	Soil	East Wall	<20	<50	<100	ND	ND	ND	ND
#4	Soil	South Wall	<20	<50	<100	ND	ND	ND	ND
#5	Soil	North Wall	<20	<50	<100	ND	ND	ND	ND
#6	Soil	West Wall	<20	<50	<100				
#7	Soil	Comp. West small pile excav	>20	<50	<100	ND	ND	ND	ND
#8	Soil	Comp. West large pile excav	<20	<50	<100				
#9	Soil	Comp East large pile excav	<20	<50	<100				

Project: Metal Marine Pilot
2119 Mildred Street West
Tacoma, Washington

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Don Golden

Date: March 18, 1994
Revised: March 28, 1994

Report On: Analysis of Soil

Lab No.: 38533

IDENTIFICATION:
Samples received on 03-07-94
Project: Metal Marine Pilot
Chevron Solvent 140 & 410 BW
P. O. No. 4-0273

ANALYSIS:

Lab Sample No. 38533-1

Client ID: 1

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	67
o-terphenyl	78

is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with ceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-2 Client ID: 2

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	60
o-terphenyl	69

ort is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Golden
ject: Metal Marine Pilot
No. 38533
ch 18, 1994
ised: March 28, 1994

Sample No. 38533-2 Client ID: 2

BTEX by EPA Method 8020
Date Extracted: 3-15-94
Date Analyzed: 3-16-94
Units: mg/kg

ımeter	Result	PQL	Flag
:ene	ND	0.05	
ıene	ND	0.05	
'l Benzene	ND	0.05	
:nes	ND	0.05	

:OGATE RECOVERY, %

fluorotoluene	80

Not Detected
- Practical Quantitation Limit

ılely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with
ıctice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-3 Client ID: 3

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	67
o-terphenyl	74

ort is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with ...y acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-3 Client ID: 3

BTEX by EPA Method 8020
Date Extracted: 3-15-94
Date Analyzed: 3-16-94
Units: mg/kg

Parameter	Result	PQL	Flag
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	84

ND - Not Detected
PQL - Practical Quantitation Limit

ort is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-4 Client ID: 4

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	72
o-terphenyl	83

ort is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-4 Client ID: 4

BTEX by EPA Method 8020
Date Extracted: 3-15-94
Date Analyzed: 3-16-94
Units: mg/kg

Parameter	Result	PQL	Flag
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	84

ND - Not Detected
PQL - Practical Quantitation Limit

t is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with
cceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-5 Client ID: 5

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7-C12)	< 20	
Diesel (> C12-C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	54
o-terphenyl	65

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SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-5 Client ID: 5

BTEX by EPA Method 8020
Date Extracted: 3-15-94
Date Analyzed: 3-16-94
Units: mg/kg

Parameter	Result	PQL	Flag
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	81

ND - Not Detected
PQL - Practical Quantitation Limit

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SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-6 Client ID: 6

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	59
o-terphenyl	70

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SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-7 Client ID: 7

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	> 20	X2
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	60
o-terphenyl	71

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SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-7 Client ID: 7

BTEX by EPA Method 8020
Date Extracted: 3-15-94
Date Analyzed: 3-16-94
Units: mg/kg

Parameter	Result	PQL	Flag
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	85

ND - Not Detected
PQL - Practical Quantitation Limit

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SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-8 Client ID: 8

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	57
o-terphenyl	70

rt is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with cceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Don Golden
Project: Metal Marine Pilot
Lab No. 38533
March 18, 1994
Revised: March 28, 1994

Lab Sample No. 38533-9 Client ID: 9

WTPH-HCID
Date Extracted: 3-8-94
Date Analyzed: 3-9-94
Units: mg/kg

Parameters	Result	Flag
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	66
o-terphenyl	79

port is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

Client Name	Don Golden
Client ID:	7
Lab ID:	38533-7
Date Received:	3/7/94
Date Extracted:	3/14/94
Date Analyzed:	3/15/94

Semivolatile Organics by USEPA Method 8270

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Nitrobenzene - d5	90		23	120
2 - Fluorobiphenyl	89		30	115
p - Terphenyl - d14	125		18	137
Phenol - d5	78		24	113
2 - Fluorophenol	100		25	121
2,4,6 - Tribromophenol	77		19	122

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	Flags
Phenol	ND	720	
bis(2-Chloroethyl)ether	ND	720	
2-Chlorophenol	ND	720	
1,3-Dichlorobenzene	ND	720	
1,4-Dichlorobenzene	ND	720	
Benzyl Alcohol	ND	1400	
1,2-Dichlorobenzene	ND	720	
2-Methylphenol	ND	720	
bis(2-Chloroisopropyl)ether	ND	720	
4-Methylphenol	ND	720	
N-nitroso-di-N-propylamine	ND	720	
Hexachloroethane	ND	720	
Nitrobenzene	ND	720	
Isophorone	ND	720	
2-Nitrophenol	ND	720	
2,4-Dimethylphenol	ND	720	
Benzoic Acid	ND	3600	
bis(2-Chloroethoxy)methane	ND	720	
2,4-Dichlorophenol	ND	720	
1,2,4-Trichlorobenzene	ND	720	
Naphthalene	ND	720	
4-Chloroaniline	ND	1400	
Hexachlorobutadiene	ND	720	
4-Chloro-3-methylphenol	ND	1400	
2-Methylnaphthalene	ND	720	
Hexachlorocyclopentadiene	ND	720	
2,4,6-Trichlorophenol	ND	720	

Semivolatile Organics by USEPA Method 8270 data for 38533-7 continued...

Analyte	Result (ug/kg)	PQL	Flags
2,4,5-Trichlorophenol	ND	720	
2-Chloronaphthalene	ND	720	
2-Nitroaniline	ND	3600	
Dimethylphthalate	ND	720	
Acenaphthylene	ND	720	
2,6-Dinitrotoluene	ND	720	
3-Nitroaniline	ND	3600	
Acenaphthene	ND	720	
2,4-Dinitrophenol	ND	3600	
4-Nitrophenol	ND	3600	
Dibenzofuran	ND	720	
2,4-Dinitrotoluene	ND	720	
Diethylphthalate	ND	720	
4-Chlorophenyl phenyl ether	ND	720	
Fluorene	ND	720	
4-Nitroaniline	ND	3600	
4,6-Dinitro-2-methylphenol	ND	3600	
N-Nitrosodiphenylamine	ND	720	
4-Bromophenyl phenyl ether	ND	720	
Hexachlorobenzene	ND	720	
Pentachlorophenol	ND	3600	
Phenanthrene	ND	720	
Anthracene	ND	720	
Di-n-butylphthalate	420	720	J B1
Fluoranthene	ND	720	
Pyrene	ND	720	
Butylbenzylphthalate	ND	720	
3,3'-Dichlorobenzidine	ND	720	
Benzo(a)anthracene	ND	720	
Chrysene	ND	720	
bis(2-Ethylhexyl)phthalate	ND	720	
Di-n-octylphthalate	ND	720	
Benzo(b)fluoranthene	ND	720	
Benzo(k)fluoranthene	ND	720	
Benzo(a)pyrene	ND	720	
Indeno(1,2,3-cd)pyrene	ND	720	
Dibenz(a,h)anthracene	ND	720	
Benzo(g,h,i)perylene	ND	720	

THE CITY OF FIRCREST

115 Ramsdell St
Fircrest, WA 98466
(253) 564-8902

City of Fircrest
House addresses

THIS IS NOT A SURVEY.
DO NOT USE DATA FOUND ON THIS MAP.
THE CITY OF FIRCREST ASSUMES NO LIABILITY FOR VARIATIONS ASCERTAINED BY ACTUAL SURVEY.
FOR INFORMATIONAL USE ONLY.

N

Map Scale 1 inch = 9600 feet

Photo 1: Subject site. View looking west.

Photo 2: Subject site. View looking northwest.

KLEINFELDER PROJECT NO. 56130 April 2005	**Photo Log** Proposed Retail Stie (No. 95984) 2119 Mildred Street West Fircrest, Washington	**Page** ***1***

Photo 3: Subject site. View looking southwest.

Photo 4: Location where a 2,000-gallon Kerosine UST and a 2,000-gallon diesel UST where removed.

Photo 5: One of two sealed recovery UST locations at the Site.

Photo 6: Location where two 80-gallon Kerosine USTs where removed

Photo 7: Spray painting shed.

Photo 8: Loading dock area located immediately south of the spray painting shed.

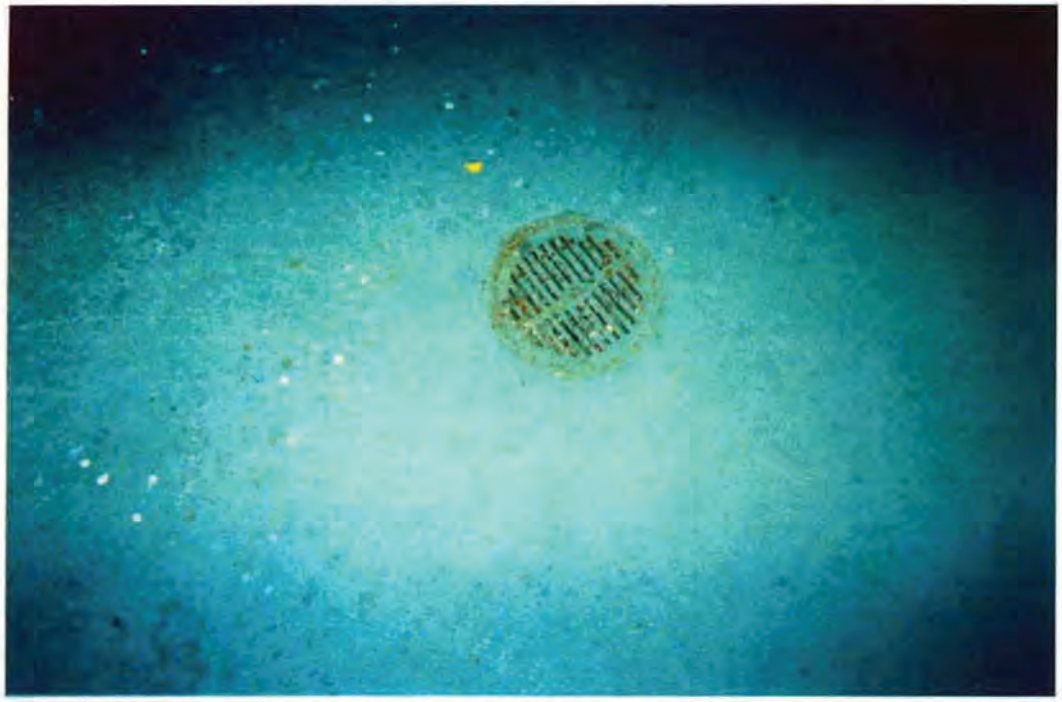

Photo 9: One of three floor drains located within the spray painting shed.

Photo 10: Empty solvent tank located along the east end of the main building.

Photo 11: Typical hazardous materials storage area within the main building.

Photo 12: Floor staining observed within the hydraulic oil room of the main building.

SITE CHARACTERIZATION AND CONTAMINATED SOIL REMEDIATION REPORT

Pace Industries Oil Release April 26, 1999

Located At:
2119 Mildred Street W.
Fircrest, Washington
May 5, 1999

Prepared For:

Metal Marine Pilot, Inc.
Wood Freeman Autopilot
2119 Mildred Street W.
Fircrest, Washington

Prepared By:

Creative Environmental Technologies, Inc.
PO Box 1803
Tacoma, Washington 98401-1803
(253) 627-3347

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Table Of Contents

1.0 Introduction 3

2.0 Site Description and Limits of the Contamination 4

3.0 Geologic Conditions 5

4.0 Contaminated Soil Removal 5

5.0 Soil Sampling 6

6.0 Analytical Results 6

7.0 Conclusions 8

Appendix A -Site Location Map, Site Map, Sample Location Map, Plat Drawing, Photographs of Site

Appendix B - Analytical Results, Chromatographs, Chains of Custody

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1.0 Introduction

Creative Environmental Technologies, Inc. (CETI) was retained by Metal Marine Pilot, Inc. and Mr. Michael Freeman to supervise the remedial activities for an oil / water waste product release on to the north end of Metal Marines property by Pace Industries, a local metal fabricator.

Pace Industries uses a special lubricating paraffin oil in their machining process (MSDS sheets attached). This oil is collected in several areas throughout their facility. One of these collection areas discharges from the rear of Pace's building in an underground four inch PVC piping system. This piping system runs along the southern end of Pace's building and discharges into a holding system for treatment prior to disposal into the City of Fircrest sanitary sewer system. Along this piping is a clean out that protrudes at a 45 degree angle out of the ground. This is the point of release. CETI was told by Jeff Bartunek, Pace's casting / maintenance manager & CPD Safety Director, that the system backed up and the pressure blew the cap of the clean out. At this time it is unclear the amount of oil / water released.

The release was noticed by Pace and Metal Marine employees Monday morning April 26, 1999. Pace immediately implemented a cleanup action by pumping all standing fluid from Paces's property and Metal Marines Property into 55 gallon drums. The exact amount of waste product versus standing water collected is unknown. The released material pooled in the general vicinity of the release point then flowed following the natural gradient to the east. Prior to the release, Metal Marine trenched an area along their eastern property boundary to collect surface storm water and channel it for storm water runoff control. The released material followed the storm water trench for approximately two hundred feet along Metal Marine's eastern property boundary. Pace recovered all the water and released product from the trench line. It is unclear if the trench line had standing water prior to the release.

CETI identified oil range hydrocarbon contamination in the surface and sub-surface soils at the site during a site walk approximately 24 hours following the release. Foss Environmental Services was initially contacted by Pace following the collection of the standing water. CETI technicians samples the soil prior to the remedial activity and following the remedial activity by Foss. The sample results from this first round of sampling indicated further remedial activity would be required. At CETI's request, Pace contacted a local environmental contracted, Clean Service, to complete the remedial activity. CETI supervised the remedial activity and collected samples following the removal of all soil impacted by the release on Metal Marine's property. There still exists contamination on Pace's property directly adjacent to Metal Marine's property. This area was fenced impeding remedial activities.

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2.0 Site Description and Limits of the Contamination

Metal Marine's property is located in the City of Fircrest, in Pierce County, Washington at 2119 Mildred Street West. The property has been owned by the Freeman family for over fifty years. It covers approximately 10 acres fronting Mildred street. Pace Puget occupies the property directly adjacent to the north of Metal Marine. The piping system where the release occurred runs along the southern end of Pace's building approximately twenty four (24) inches from Metal Marines property line (Figure 2). The release point is inside a fenced area. The gradient of the immediate area adjacent to the release point slopes to the south onto Metal Marine's property then slopes to the east.

The released material pooled in a twenty by thirty (approximate) foot area before flowing down-slope to the east. The flow limited the horizontal extent of contamination to a path twenty to forty inches wide. The material released was a milky white, emulsified oil / water waste product. The color of the material helped in tracing the flow. There were several hay bails placed on the northeast corner of Metal Marines property prior to the release directly in the path of the flow. These hay bails acted at a barrier and significantly reduced the amount of contamination along the eastern storm water trench.

The horizontal extent of contamination was observed along Metal Marine's eastern storm water ditch line. On site sampling indicated clean up levels outlined by MTCA[1] (Model Toxic Control Act) were not exceeded in surface and sub-surface soils past two hundred feet from the northeast property corner of Metal Marine's property and the start of the eastern ditch line.

Generally, vertical extent of contamination was observed from the surface to twenty four inches below ground surface (BGS). Where the contamination pooled, the vertical extent of contamination was greater.

[1] The Model Toxic Control Act (MTCA) Cleanup Regulations sets requirements for allowable petroleum and other potentially harmful constituents and there clean up limits in surface and sub-surface soils and groundwater in the state of Washington. These limits are found in Washington Administrative Code (WAC) 173-340.

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3.0 Geologic Conditions

In the area where the released occurred, the soil consisted of light to medium gray silt and glacial till sand with few rounded coarse to fine gravels. According to Mr. Freeman, the majority of the surface soils have been imported over the past 15 years.

4.0 Contaminated Soil Removal

Remedial activities were started on April 27, 1999 and finished on April 29, 1999, on soil contaminated by the release from Pace Puget on April 19, 1990, and identified by CETI through on-site soil sampling. Soil was removed along Metal Marine's northern property line and along the eastern storm water ditch. Approximately eighty cubic tons of contaminated soil were excavated and removed from the property.

On April 27, 1999, Foss Environmental Services started excavating contaminated soils by hand but soon learned that the contamination was greater than first thought. CETI was on site sampling soils and recommended that Clean Service be hired to excavate the remaining contaminated soil. A track hoe was delivered on April 28, 1999 by Clean Service. Under CETI's supervision, soils that were screened by CETI and found to contain hydrocarbons exceeding MTCA limits were excavated and trucked off-site for disposal. The soil was disposed of at TPS, a local hydrocarbon contaminated soil disposal facility.

The area most significantly contaminated was near the release point where the contaminate had pooled. Soil was excavated in this area to a depth of twenty four to thirty six inches BGS. This excavated area was approximately twenty feet by thirty feet. The path the released material followed along the northern property boundary, approximately one hundred sixty feet to the hay bails on the northeast corner of the property was excavated to six inches BGS. Twelve to eighteen inches of soil was excavated in an area fifteen feet by twenty feet around the hay bail location. The storm water ditch following the eastern property line was the final area excavated. The ditch started on the northeast corner of the property and runs the entire eastern length of the property. CETI screened the ditch bottom and found oil contamination exceeding the MTCA limits for approximately 200 feet along the ditch line. Six to twelve inches of soil was removed from the bottom and side walls of the ditch, removing all contamination.

Confirmatory samples were collected from the excavated areas. These samples showed no levels of oil exceeding the MTCA limits.

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5.0 Soil Sampling

CETI collected soils samples from the excavation area along the perimeter and the bottom of the excavated areas. Soil collection depths followed the final excavation depth and varied through out the area (Figure 2 - Soil Sample Location Map)

Soil sampling procedures followed the Washington State Department Of Ecology Toxics Cleanup Program Guidance on Sampling and Data Analysis Methods, Publication Number 94-49. The soil samples were collected from the excavation using a stainless steel sampling spoon. Select soil was placed in a EPA approved 4 oz glass sample collection jar with a Teflon™ lined lid. All samples were stored in a cooler at 40° F. to maintain and preserve the integrity of the sample until delivered to the laboratory for analysis.

The soil samples were submitted to Spectra laboratories for analysis between April 27 and April 29, 1999. Analysis performed was for Total Petroleum Hydrocarbons- diesel extended (WTPH-D Extended).

6.0 Analytical Results

Washington administrative code (WAC) 173-340-745 Method A sets an action level (maximum allowable limit) of 200 ppm (mg/kg) petroleum hydrocarbon oils in soil.

Soil Analysis
Heavy Oil Release Excavation
Method: WTPH-418.1

Sample ID	Sample Location	Heavy Oils (ppm)	Action Level
S1-42799	Release Point	14,000	200 ppm
S2-42799	Trench Following Hay Bails	1,000	200 ppm
S3-42799	Release Path Before Hay Bails	81,000	200 ppm
S4-42799	30' Following Hay Bails	3,900	200 ppm
S5-42799	60' Following Hay Bails	1,800	200 ppm
S6-42799	Beginning Of Flow After Pooling	1,400	200 ppm
S7-42799	Release Path Before Hay Bails	1,100	200 ppm
S10-42899	Northeast Corner of Excavation	<100	200 ppm
S11-42899	East Wall of Excavation	<100	200 ppm
S12-42899	Southeast Corner of Excavation	<100	200 ppm

CURRENT MTCA METHOD 2,000

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Sample ID	Sample Location	Heavy Oils (ppm)	Action Level
S13-42899	Southwest Corner of Excavation	<100	200 ppm
S14-42899	South Wall of Excavation (West)	1,100	200 ppm
S15-42899	Bottom of Excavation (West)	<100	200 ppm
S16-42899	Bottom of Excavation (East)	<100	200 ppm
S17-42899	South Wall of Excavation (East)	<100	200 ppm
S23-42899	Release Path 90' Before Hay Bails	<100	200 ppm
S24-42899	Release Path 60' Before Hay Bails	<100	200 ppm
S25-42899	Release Path 30' Before Hay Bails	<100	200 ppm
S26-42899	Soil Beneath Hay Bales	<100	200 ppm
S27-42899	Northwest Corner of Excavation	<100	200 ppm
S28-42899	West Wall of Excavation	<100	200 ppm
S29-42899	Below Pipe Break at Release Point	5,800	200 ppm
S30-43099	Soil Beneath Hay Bales	<100	200 ppm
S31-43099	20' Following Hay Bales	<100	200 ppm
S32-43099	Blank	<100	200 ppm
S33-43099	50' Following Hay Bales	<100	200 ppm
S34-43099	80' Following Hay Bales	<100	200 ppm
S35-43099	110' Following Hay Bales	<100	200 ppm
S36-43099	140' Following Hay Bales	<100	200 ppm
S37-43099	170' Following Hay Bales	<100	200 ppm
S38-43099	20' Down Gradient East of S37	<100	200 ppm

Analytical results for samples taken in contaminated soil excavation August 5, 1998

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7.0 Conclusions

Based on the results of the laboratory soil analysis, on site soil screening and on site observations, it is CETI's opinion that the remaining subsurface soils located in the area identified during the site delineation on Metal Marine's property following the remedial activity, are free of petroleum hydrocarbons. Pace Industries property immediately adjacent to Metal Marines norther property boundary were the release originated, is still heavily contaminated. Sub-surface soil samples in this area (samples location S-29) revealed oil range hydrocarbon levels exceeding 5000 mg/Kg (parts per million). Current MTCA method A limits are 200 mg/Kg (ppm). If the contaminated soil is left, there is a strong possibility that the contaminate will migrate across property lines and re-contaminate Metal Marines Property. CETI has advised Metal Marine to adamantly pursue the removal of all contaminated soil by Pace Industries, that is posing an immediate threat to Metal Marine's property.

Creative Environmental Technologies, Inc. extends its appreciation for the opportunity to provide environmental services on this project. If there are any questions regarding this report please do not hesitate to contact us.

Respectfully Submitted,

By: _____

Stephen Spencer
Creative Environmental Technologies, Inc.

Approved By: _____

John R. Spencer, BBA, LLB
President
Creative Environmental Technologies, Inc.

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Appendix A - Site Location Map, Site Map, Sample Location Map, Plat Drawing, Photographs of Site

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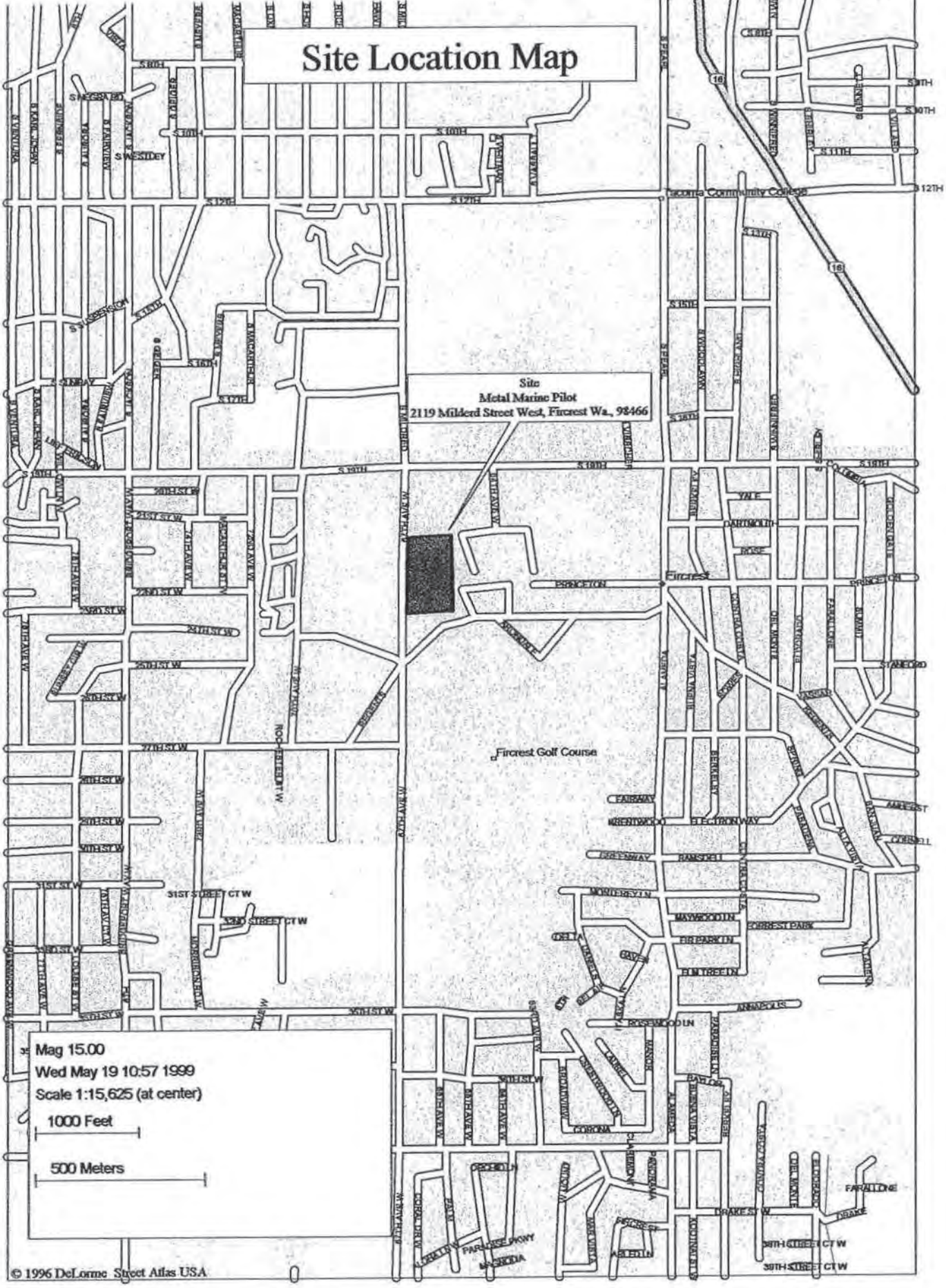
Site Location Map



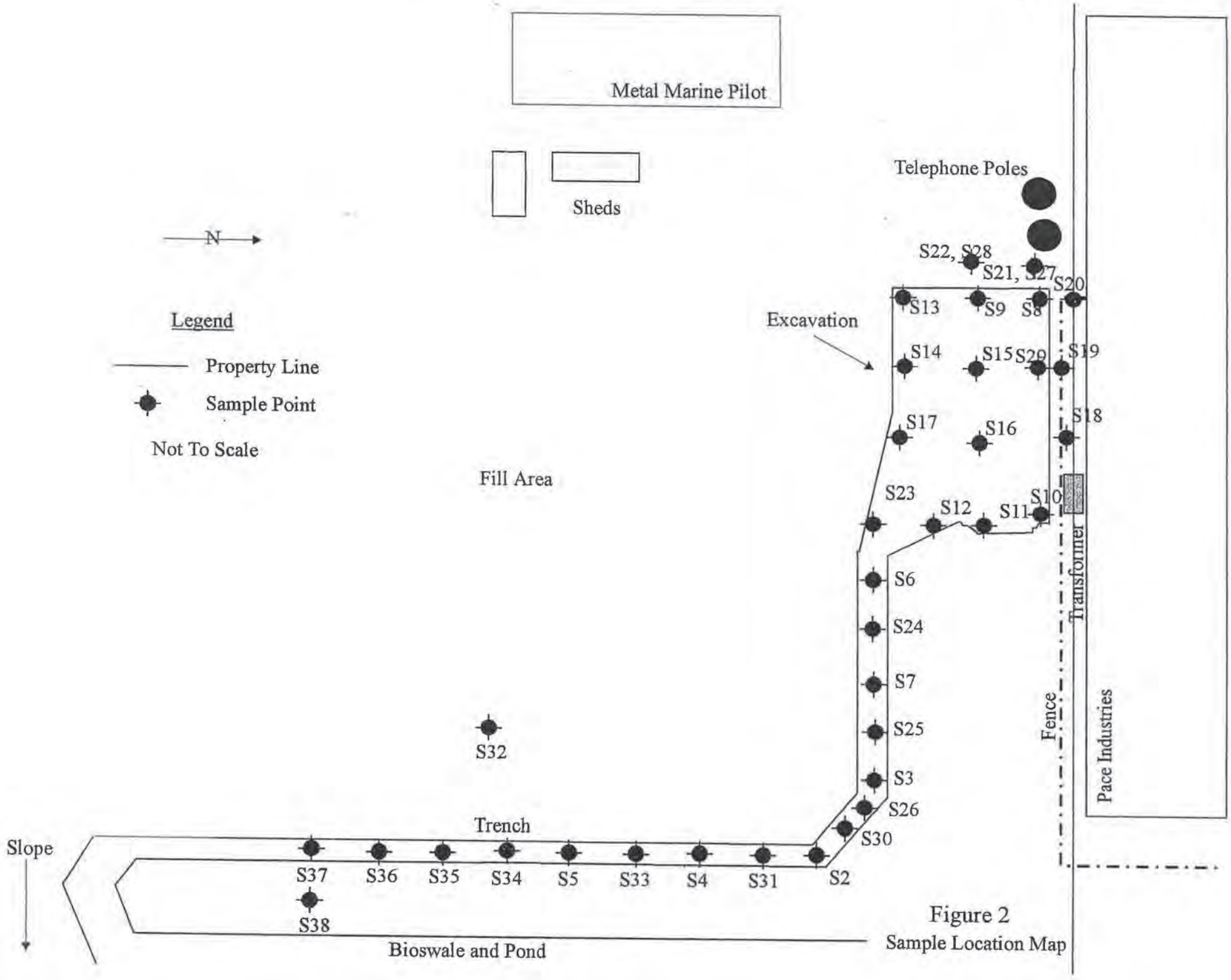


Figure 2
Sample Location Map

Clean Out - Source Of Contamination

Below Clean Out - Leaking Piping Syste

Removal of contaminated surface soil

Removal of surface water and contaminate

Clean out and sub-surface piping

Excavation of contaminated soil

Site Photographs
Pace Industries Soil Clean up
Metal Marine Pilot, Inc Site
2119 Mildred Street W.

Norther area following contaminated soil removal

Eastern ditch line during contaminated soil removal

Eastern ditch line following contaminated soil removal

Site Photographs
Pace Industries Soil Clean up
Metal Marine Pilot, Inc Site
2119 Mildred Street W.

Appendix B - Analytical Results, Chromatographs, Chains of Custody

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SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

April 29, 1999

Creative Environmental Technologies, Inc.
P.O. Box 1803
Tacoma, WA 98401

Attn: Steven Spencer

Project: Metal Marine 103-1
Sample Matrix: Soil
Date Sampled: 4-28-99
Date Received: 4-28-99
Date Analyzed: 4-28-99
Spectra Project: S904-210
RUSH

WTPH-D EXTENDED

Spectra #	Sample ID:	WTPH-D mg/Kg dry wt.	Heavy Oils mg/Kg dry wt.	Surrogate Recovery p-Terphenyl
1977	S1	<25	14,000	114%
1978	S2	<25	1,000	117%
1979	S3	74	81,000	109%
1980	S4	<25	3,900	118%
1981	S5	<25	1,800	112%
1982	S6	<25	1,400	117%
1983	S7	<25	1,100	115%
Method Blank		<25	<100	125%

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

April 30, 1999

Creative Environmental Technologies, Inc.
PO Box 1803
Tacoma, WA 98401

Attn: Steven Spencer

PO #103-1
Project: Marine Metal
Sample Matrix: Soil
Date Sampled: 4- 28-99
Date Received: 4-28-99
Date Analyzed: 4-29-99
Spectra Project: S904-225
RUSH

WTPH-D EXTENDED

Spectra #	Sample ID:	WTPH-D mg/Kg dry wt.	Heavy Oils mg/Kg dry wt.	Surrogate Recovery p-Terphenyl
2015	S10-42899	<25	<100	123%
2016	S11-42899	<25	<100	127%
2017	S12-42899	<25	<100	136%
2018	S13-42899	<25	<100	132%
2019	S14-42899	<25	1,100	132%
2020	S15-42899	<25	<100	132%
2021	S16-42899	<25	<100	132%
2022	S17-42899	<25	<100	127%
2023	S23-42899	<25	<100	129%
2024	S24 -42899	<25	<100	128%
2025	S25 -42899	<25	<100	129%
2026	S26-42899	<25	<100	131%
2027	S27-42899	<25	<100	130%
2028	S28-42899	<25	<100	128%
2029	S29-42899	<25	5,800	127%
Method Blank		<25	<100	139%

SPECTRA LABORATORIES, INC.

Michael Deckert

Michael Deckert, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

May 4, 1999

Creative Environmental Technologies, Inc.
P.O. Box 1803
Tacoma, WA 98401

Attn: Steven Spencer

Project: Metal Marine
Sample Matrix: Soil
Date Sampled: 4-30-99
Date Received: 4-30-99
Date Analyzed: 4-30-99
Spectra Project: S904-248
RUSH

WTPH-D EXTENDED

Spectra #	Sample ID:	WTPH-D mg/Kg dry wt.	Heavy Oils mg/Kg dry wt.	Surrogate Recovery
2104	S30-43099	<25	<100	139%
2105	S31-43099	<25	<100	140%
2106	S32-43099	<25	<100	140%
2107	S33-43099	<25	<100	135%
2108	S34-43099	<25	<100	133%
2109	S35-43099	<25	<100	138%
2110	S36-43099	<25	<100	136%
2111	S37-43099	<25	<100	137%
2112	S38-43099	<25	<100	135%
Method Blank		<25	<100	99%

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

March 29, 1999

Pace Industries Puget Division
2101 Mildred St. W.
Tacoma, WA 98466

Attn: Jeff

Sample ID: Effluent Grab
Project: Wastewater Monitoring
Sample Matrix: Water
Date Sampled: 3-17-99
Date Received: 3-17-99
Spectra Project: S903-175
Spectra #1237

pH	5.58
Total Phenols, mg/L	<0.05
Total Petroleum Hydrocarbons, mg/L	1.3
Fats, Oil and Grease, mg/L	8

pH testing performed by EPA Method 150.1
Total Phenols testing performed by EPA Method 420.1
Total Petroleum Hydrocarbons testing performed by EPA Method 418.1
Fats, Oil and Grease testing performed by EPA Method 413.2

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

March 29, 1999

Pace Industries Puget Division
2101 Mildred St. W.
Tacoma, WA 98466

Attn: Jeff

Sample ID: Effluent Comp.
Project: Wastewater Monitoring
Sample Matrix: Water
Date Sampled: 3-17-99
Date Received: 3-17-99
Spectra Project: S903-175
Spectra #1238

Total Recoverable Metals, mg/L

Lead	(Pb)	<0.04
Copper	(Cu)	<0.01
Zinc	(Zn)	0.26

Total Recoverable Metals testing performed by EPA Method 200.7

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

March 29, 1999

Pace Industries Puget Division
2101 Mildred St. W.
Tacoma, WA 98466

Attn: Jeff

METHOD BLANK
Date Analyzed: 3-18-99
Spectra Project: S903-175
Applies to Spectra #1238

Total Recoverable Metals, mg/L

Lead	(Pb)	<0.04
Copper	(Cu)	<0.01
Zinc	(Zn)	<0.006

Total Recoverable Metals testing performed by EPA Method 200.7

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

March 29, 1999

Pace Industries Puget Division
2101 Mildred St. W.
Tacoma, WA 98466

Attn: Jeff

EPA Method: 418.1
Sample Matrix: Water
Spectra Project: S903-175
Applies to Spectra #1237

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/L

Date Analyzed: 3-24-99

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. Recovery	% RPD
TPH	<0.5	5.92	4.90	83	5.15	87	5

METHOD BLANK

Date Extracted: 3-26-99

Date Analyzed: 3-26-99

Total Petroleum Hydrocarbons, mg/L <0.5

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

March 29, 1999

Pace Industries Puget Division
2101 Mildred St. W.
Tacoma, WA 98466

Attn: Jeff

EPA Method 413.2
Sample Matrix: Water
Spectra Project: S903-175
Applies to Spectra #1237

OIL AND GREASE
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/L

Date Analyzed: 3-24-99

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. Recovery	% RPD
Oil and Grease	<0.5	5.92	5.12	86.5	5.55	93.7	8

METHOD BLANK

Date Extracted: 3-26-99

Date Analyzed: 3-26-99

Oil and Grease, mg/L <0.5

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Laboratory Manager

CHAIN OF CUSTOD

SPECTRA Laboratories, Inc.

PAGE 1 of 1

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838

CLIENT: PACE Industries
PROJECT: Wastewater Monitoring
CONTACT: Jeff
PHONE:
PURCHASE ORDER #:

SAMPLE ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS							ORGANICS						TCLP D-LIST					METALS			OTHER									RETUR
					WTPH-HCID	BTEX/WTPH-G	BTEX	WTPH-G	WTPH-D	TPH (H_2SO_4)	F.O.G. 413.1/413.2 (H_2SO_4)	8260 VOA	8260 CHLOR SOLVENTS	8270 SEMI-VOA	PAH/PNA-8270	8080 ORG. CHLOR PEST.	8082 PCB	TCLP METALS (8)	TCLP-VOA	TCLP 8270 SEMI-VOA	TCLP PEST.	TCLP HERB.	TOTAL METALS ICP/DCP	TOTAL METALS GFAA	TOTAL LEAD	pH 9040/9045	TOX 9020/9076	TOC 9060/PSEP	FLASH POINT	SOLIDS (SPECIFY)	T. Phenols (H_2SO_4)				NORMAL / RUSH	DISPOS
Eff-grab	3-17	13:20	wtr							X	X															X					X					Fee appl
																																				LAB ID
Eff comp	3-16/17	13:20																					X													

SPECIAL INSTRUCTIONS/COMMENTS:

T-metals: Pb, Cu, Zn
Samples were ch. Hal
+/or preserved
on site

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TI
RELINQUISHED BY	[signature]	K E Kuetten	Integrity Environmental	3-17	13-
RECEIVED BY	[signature]	Barb Minner	Spectra	3/17/99	1
RELINQUISHED BY					
RECEIVED BY					

Payment Terms: Net 30 days. Past due accounts subject to 18% per annum interest. Customer agrees to pay all costs of collection including reas
attorney's fees and all other associated costs of collection regardless of whether suit is filed.

le ID : 1977 ceti

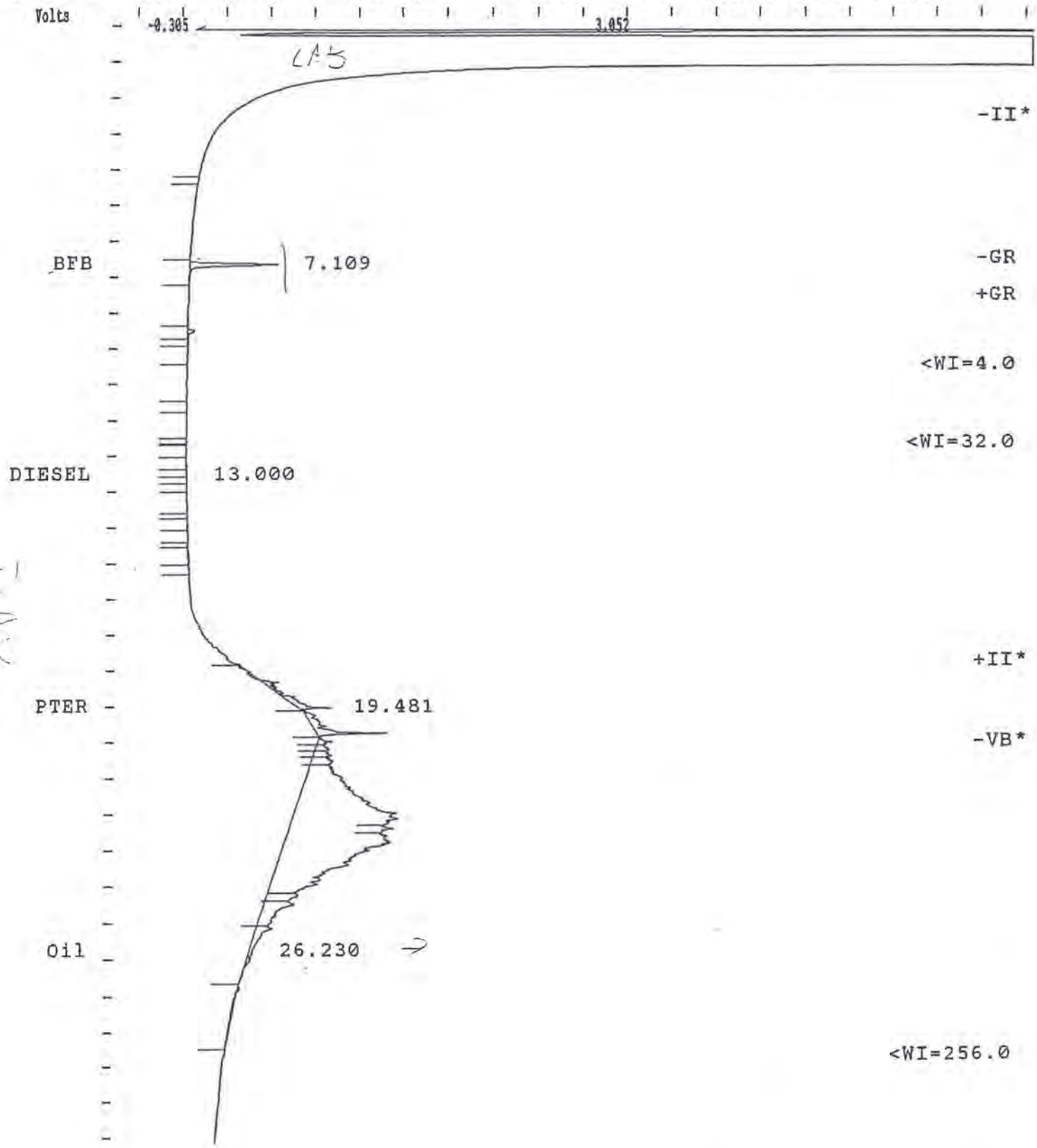
ction Date: 28-APR-99 12:49 PM Calculation Date: 28-APR-99 1:21 PM

ator : MD
station: MS-DOS_6
rument : Varian Star #2
nel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



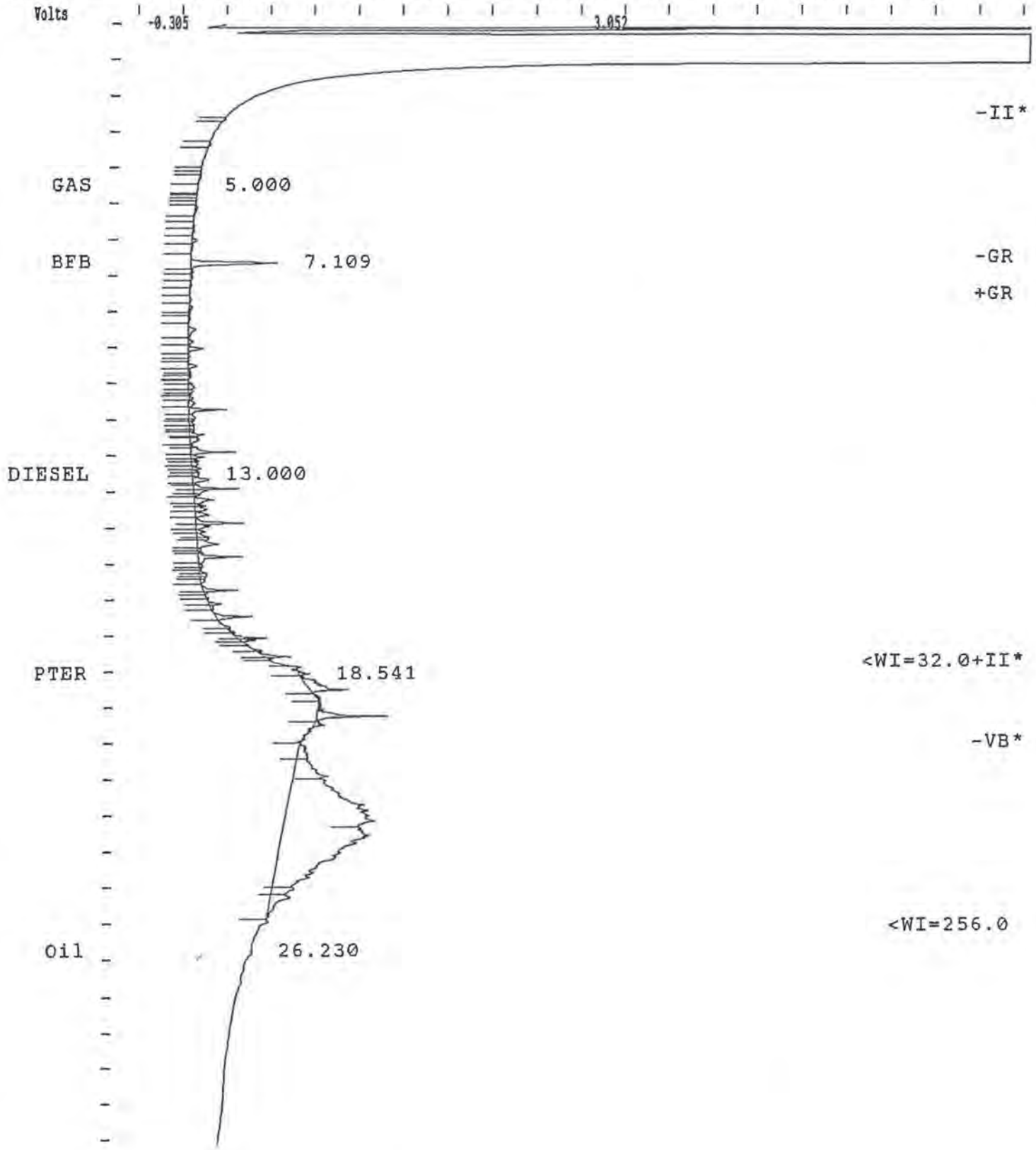
ple ID : 1977ms ceti

jection Date: 28-APR-99 1:28 PM Calculation Date: 28-APR-99 2:00 PM

rator : MD Detector Type: ADCB (10 Volts)
kstation: MS-DOS_6 Bus Address : 22
strument : Varian Star #2 Sample Rate : 10.00 Hz
nnel : B = FID-B Run Time : 32.002 min

******** Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
rt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



le ID : 1977msd ceti

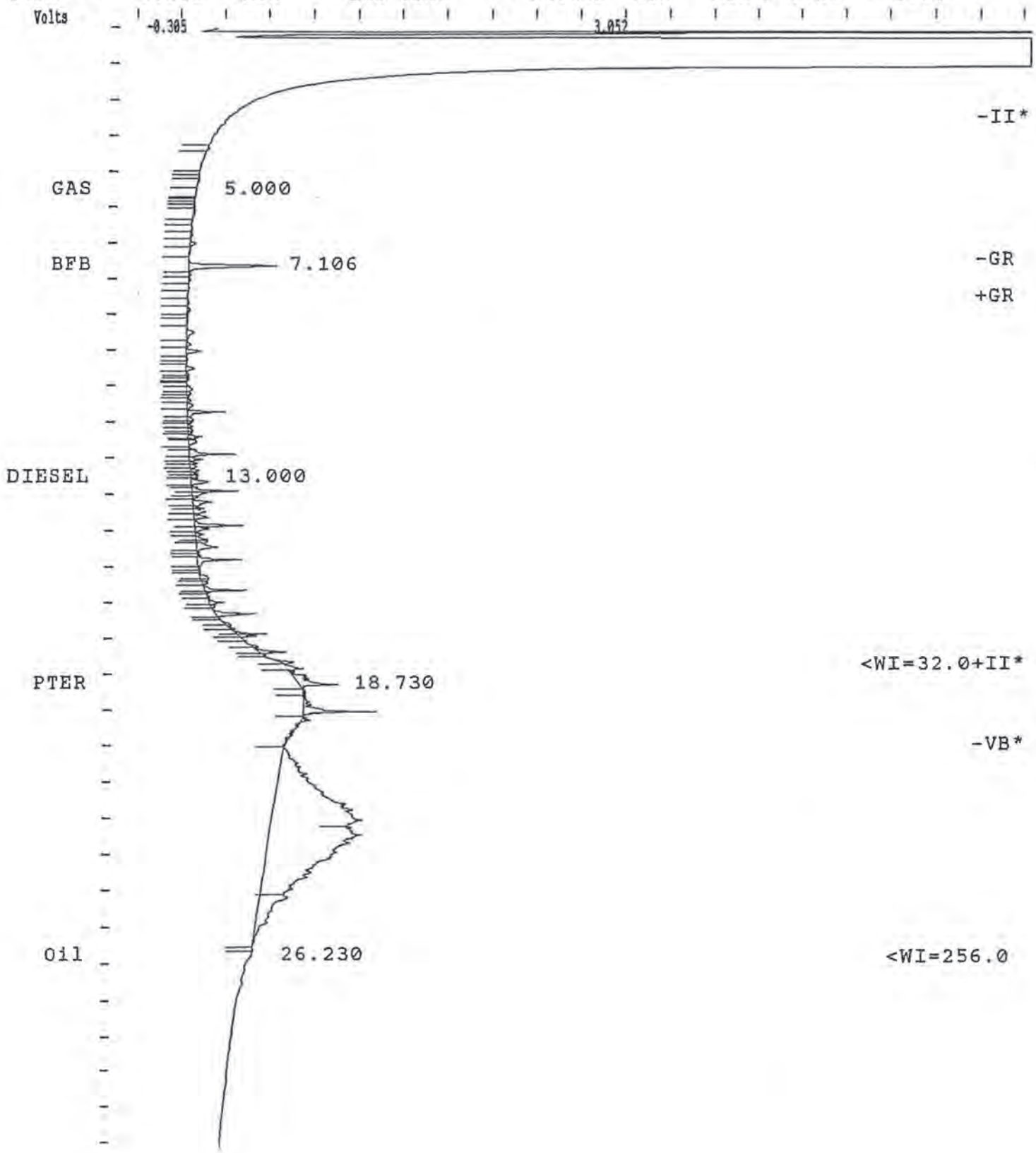
ction Date: 28-APR-99 2:07 PM Calculation Date: 28-APR-99 2:39 PM

ator : MD
station: MS-DOS_6
rument : Varian Star #2
nel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



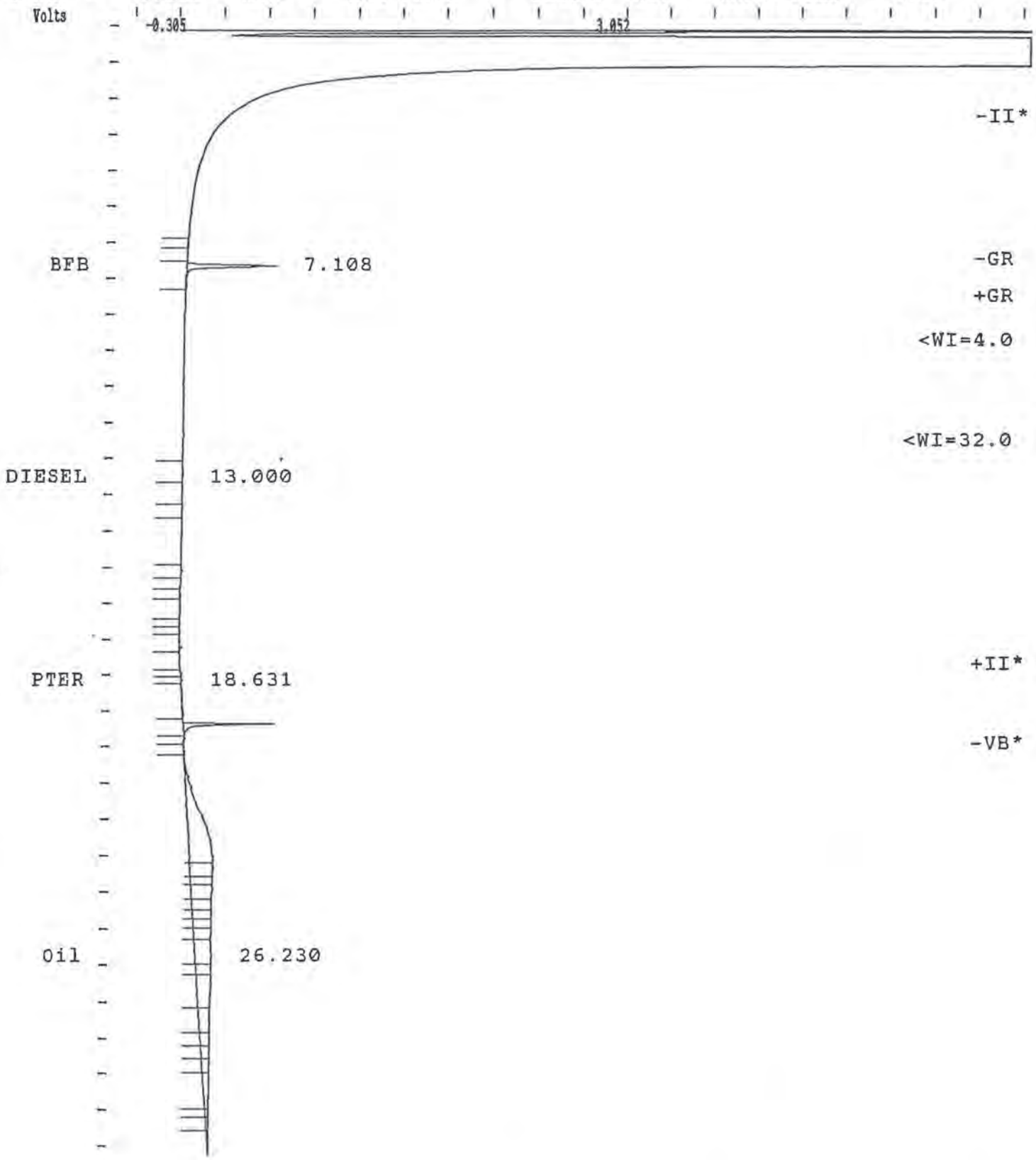
ıple ID : 1978 ceti

jection Date: 28-APR-99 2:47 PM Calculation Date: 28-APR-99 3:19 PM

ırator : MD Detector Type: ADCB (10 Volts)
ıkstation: MS-DOS_6 Bus Address : 22
strument : Varian Star #2 Sample Rate : 10.00 Hz
ınnel : B - FID-B Run Time : 32.002 min
  Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
ırt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



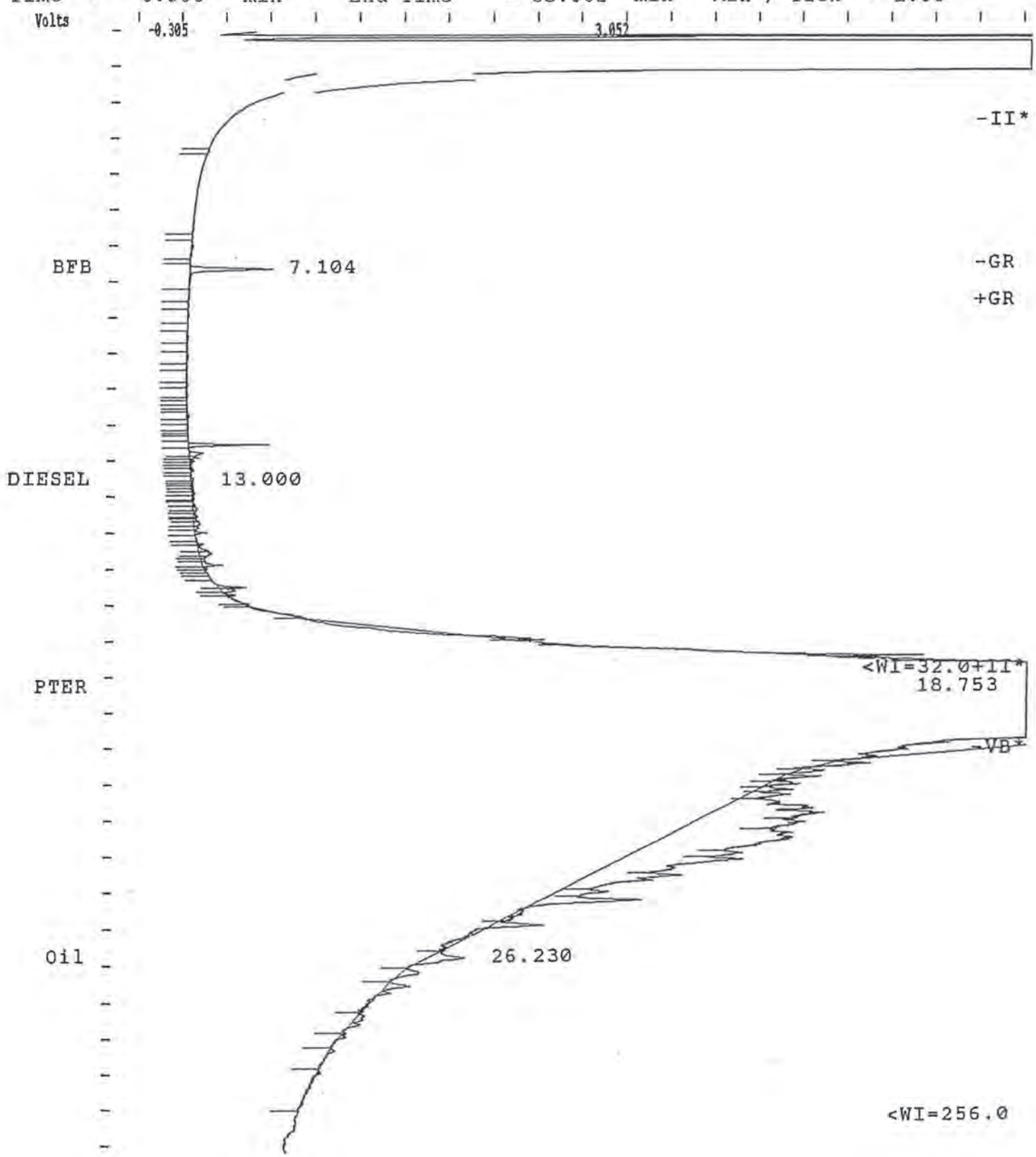
le ID : 1979 ceti

ction Date: 28-APR-99 3:26 PM Calculation Date: 28-APR-99 3:58 PM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



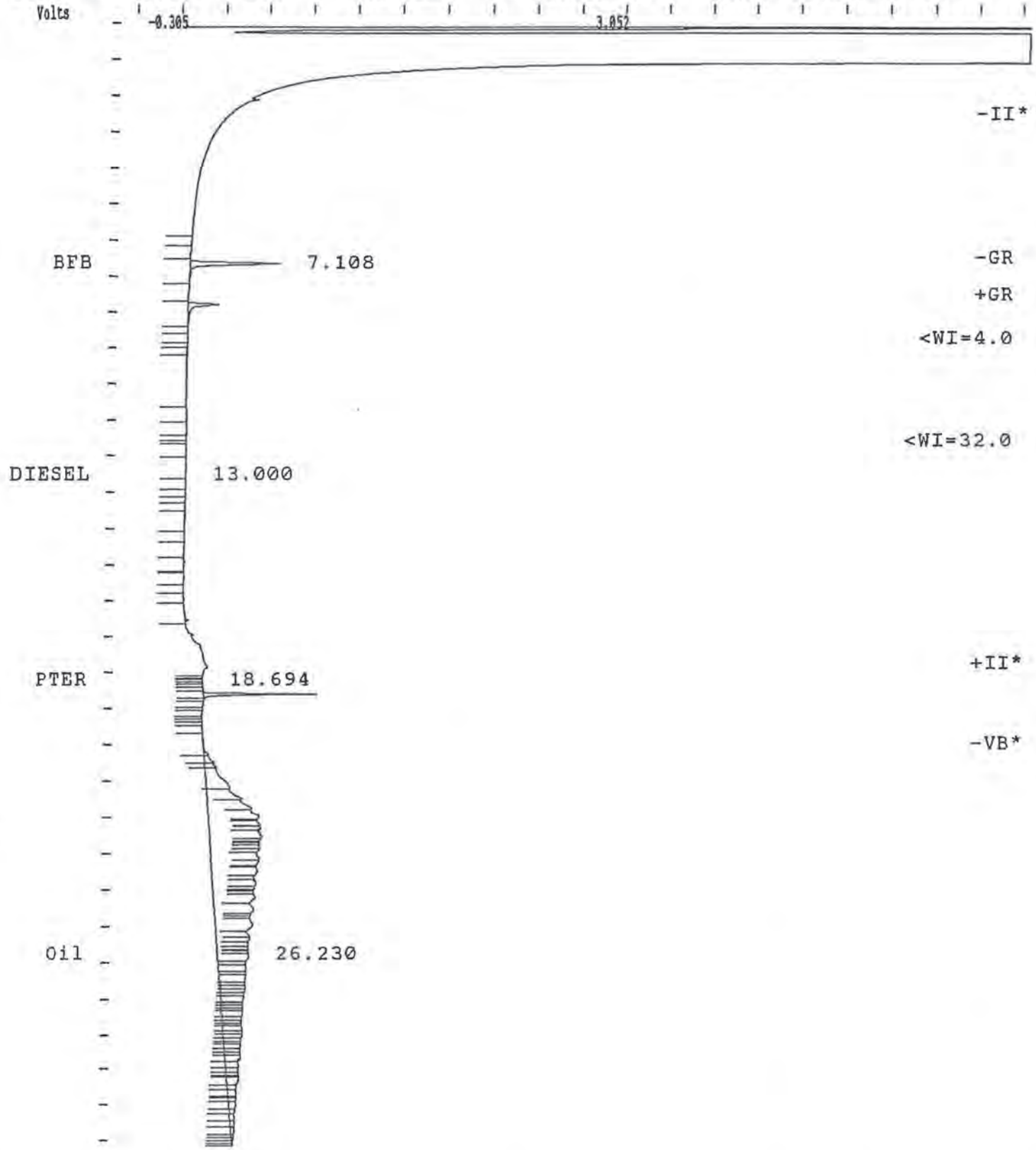
ıple ID : 1980 ceti

jection Date: 28-APR-99 4:05 PM Calculation Date: 28-APR-99 4:38 PM

ɜrator : MD Detector Type: ADCB (10 Volts)
rkstation: MS-DOS_6 Bus Address : 22
ɜtrument : Varian Star #2 Sample Rate : 10.00 Hz
ınnel : B = FID-B Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 ***************

.rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
art Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



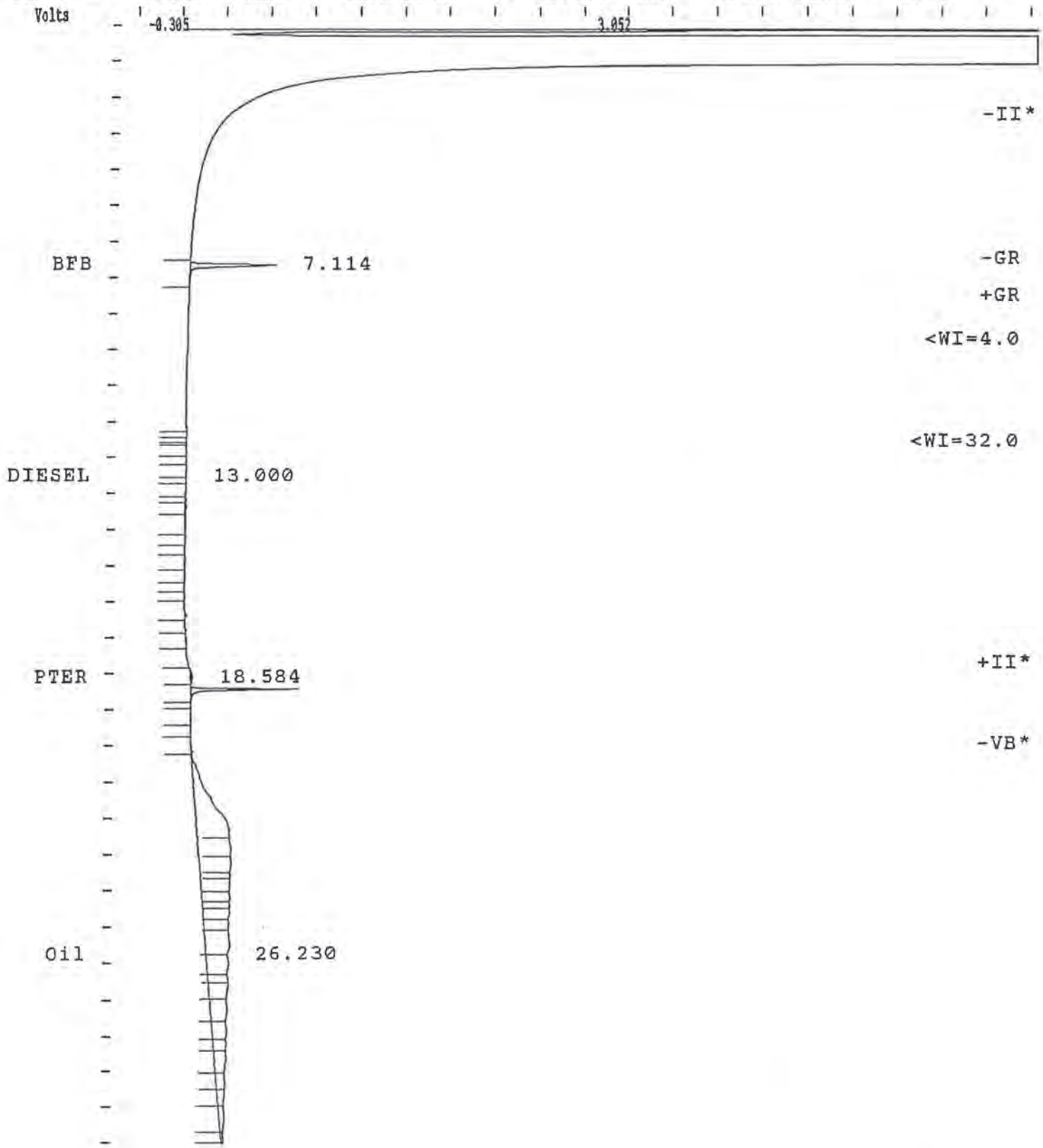
le ID : 1981 ceti

ction Date: 28-APR-99 4:45 PM Calculation Date: 28-APR-99 5:17 PM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

****** Star Chromatography Software ********** Version 4.0 **********

Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 1982 ceti

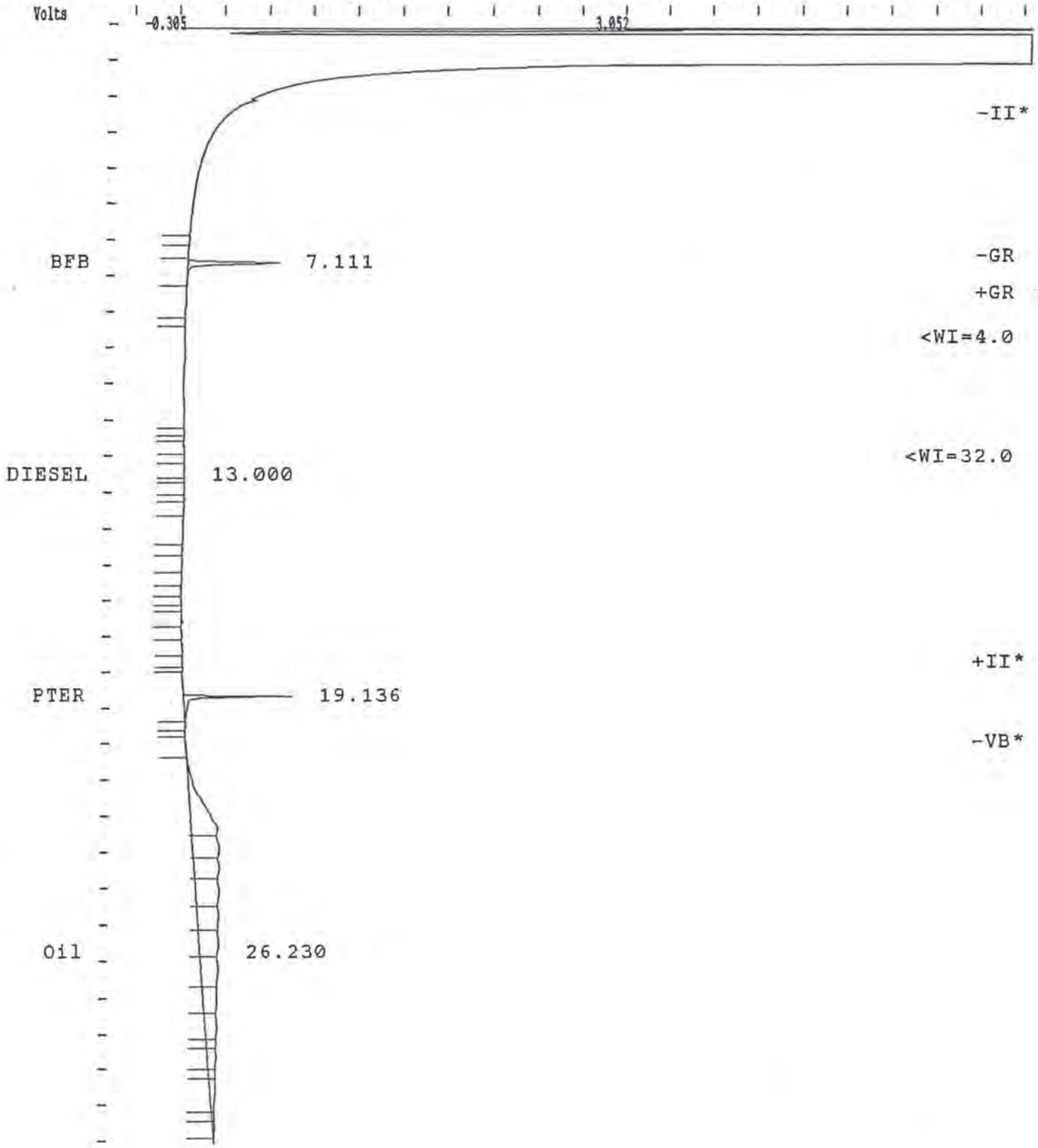
jection Date: 28-APR-99 5:24 PM Calculation Date: 28-APR-99 5:57 PM

rator : MD
:kstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

******** Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
rt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



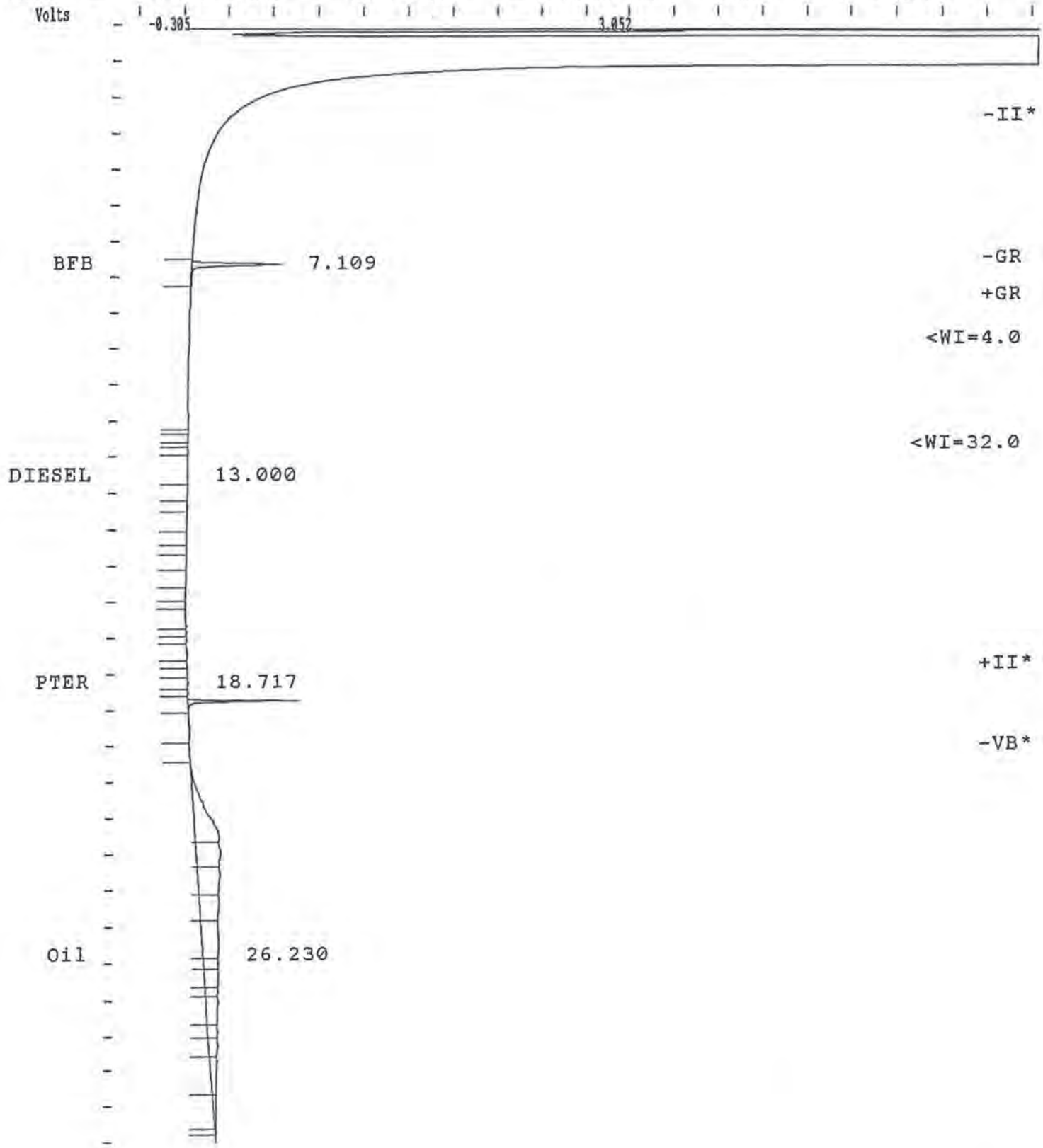
le ID : 1983 ceti

ction Date: 28-APR-99 6:04 PM Calculation Date: 28-APR-99 6:36 PM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
cument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

****** Star Chromatography Software ********** Version 4.0 **********

Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



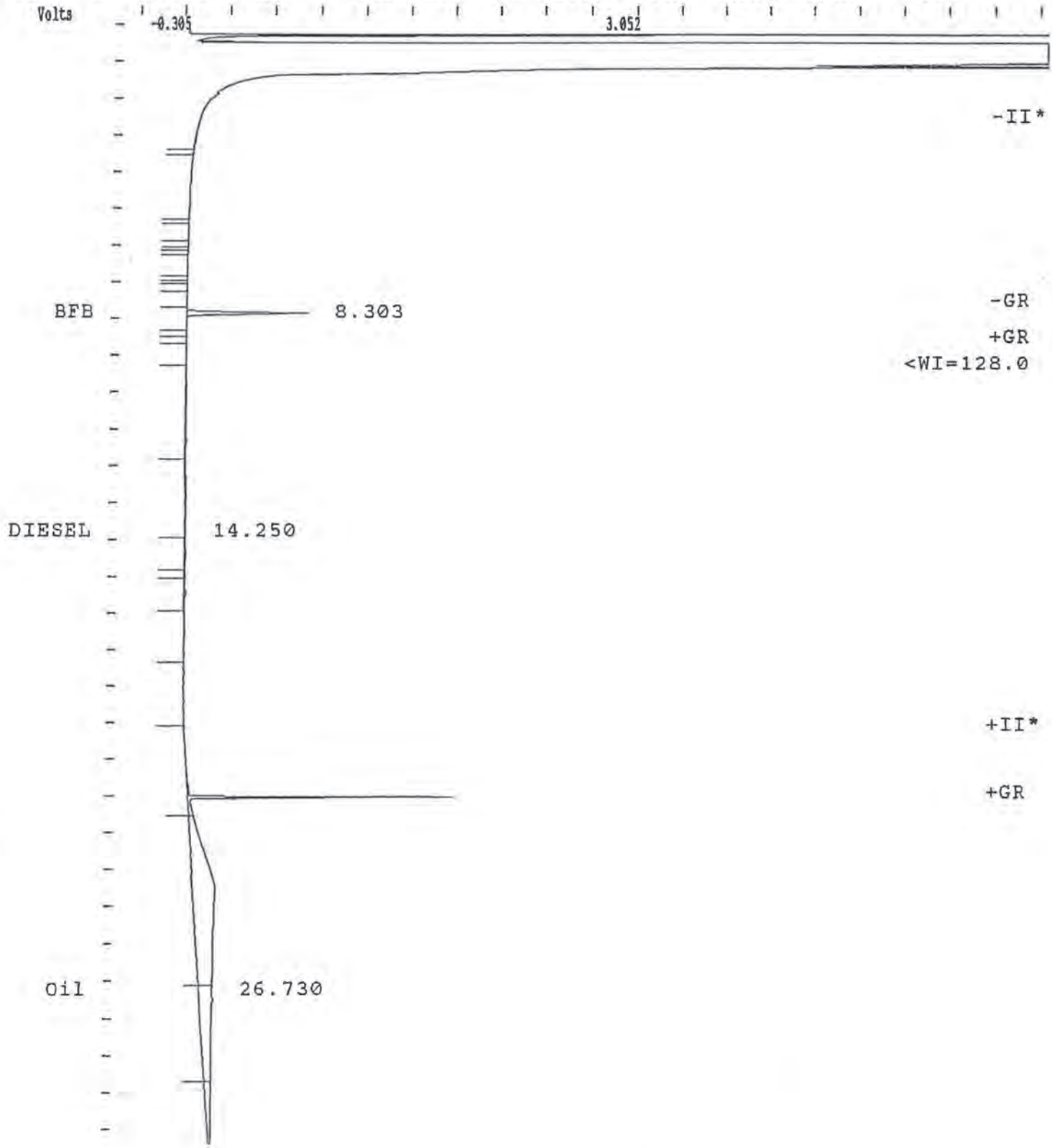
:hod File : C:\STAR\WD4.MTH
ıple ID : mblk soil 4-29-99

'ection Date: 29-APR-99 3:22 PM Calculation Date: 29-APR-99 3:54 PM

ɜrator : MD Detector Type: ADCB (10 Volts)
ckstation: MS-DOS_6 Bus Address : 22
trument : Varian Star #2 Sample Rate : 10.00 Hz
nnel : B = FID-B Run Time : 32.002 min

******** Star Chromatography Software ********** Version 4.0 **********

ırt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
ırt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



un File : C:\STAR\MODULE22\wtphd027.RUN
ethod File : C:\STAR\WD4.MTH
ample ID : 2015 cet1

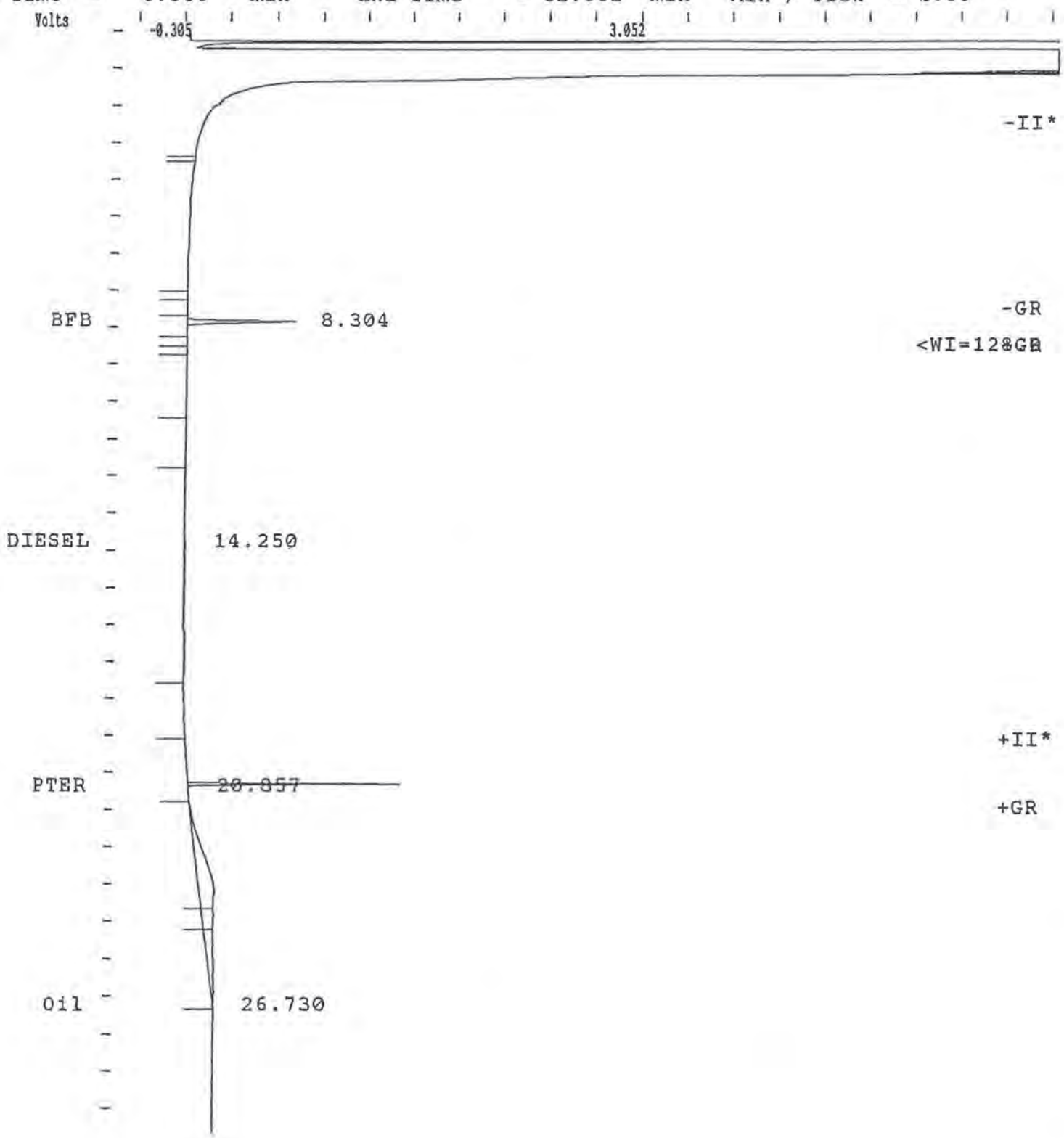
ijection Date: 29-APR-99 4:01 PM Calculation Date: 29-APR-99 4:33 PM

perator : MD
orkstation: MS-DOS_6
nstrument : Varian Star #2
hannel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

art Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
art Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 2016ceti

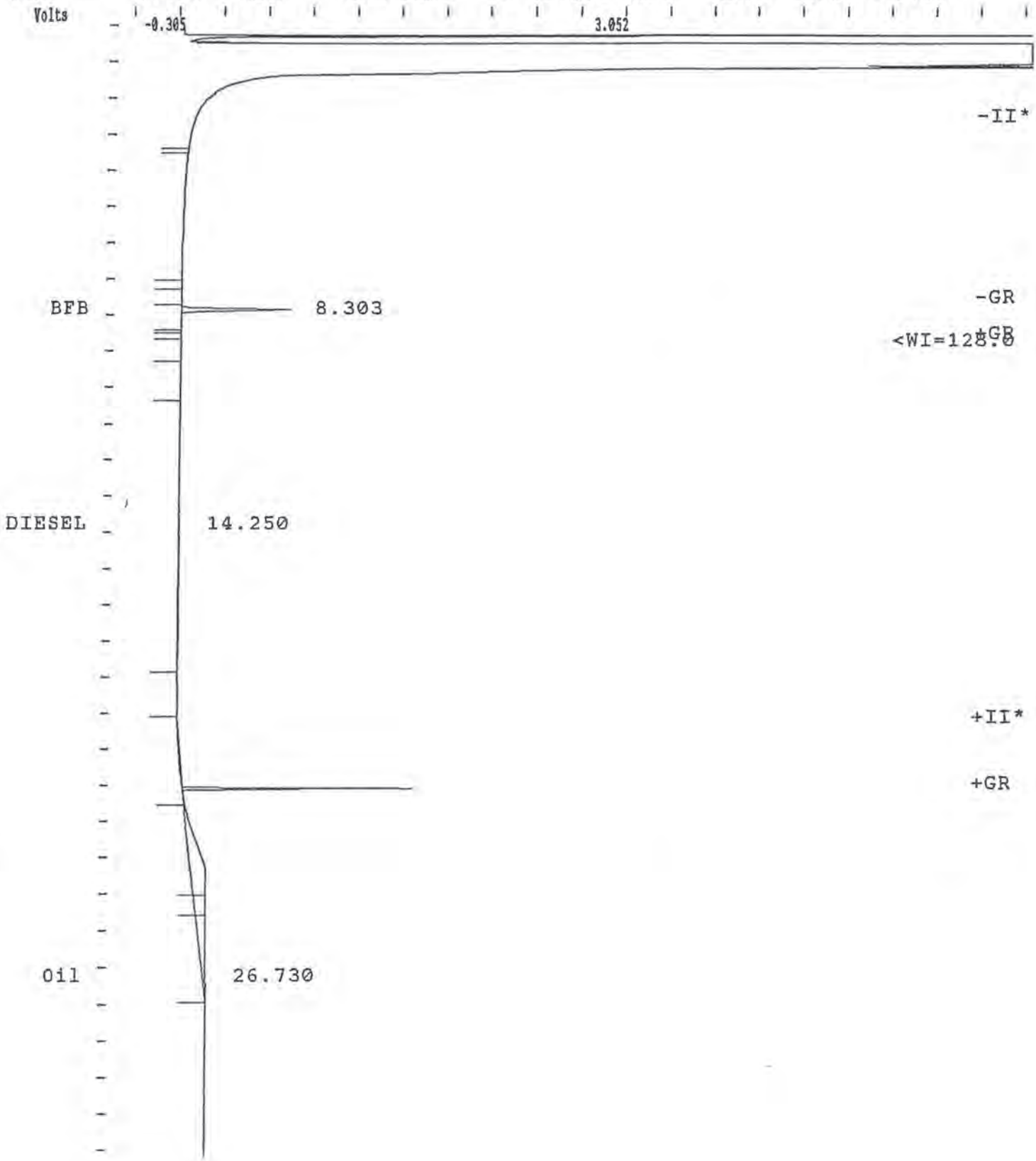
jection Date: 29-APR-99 4:41 PM Calculation Date: 29-APR-99 5:13 PM

rator : MD
kstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
rt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ıe ID : 2017 ceti

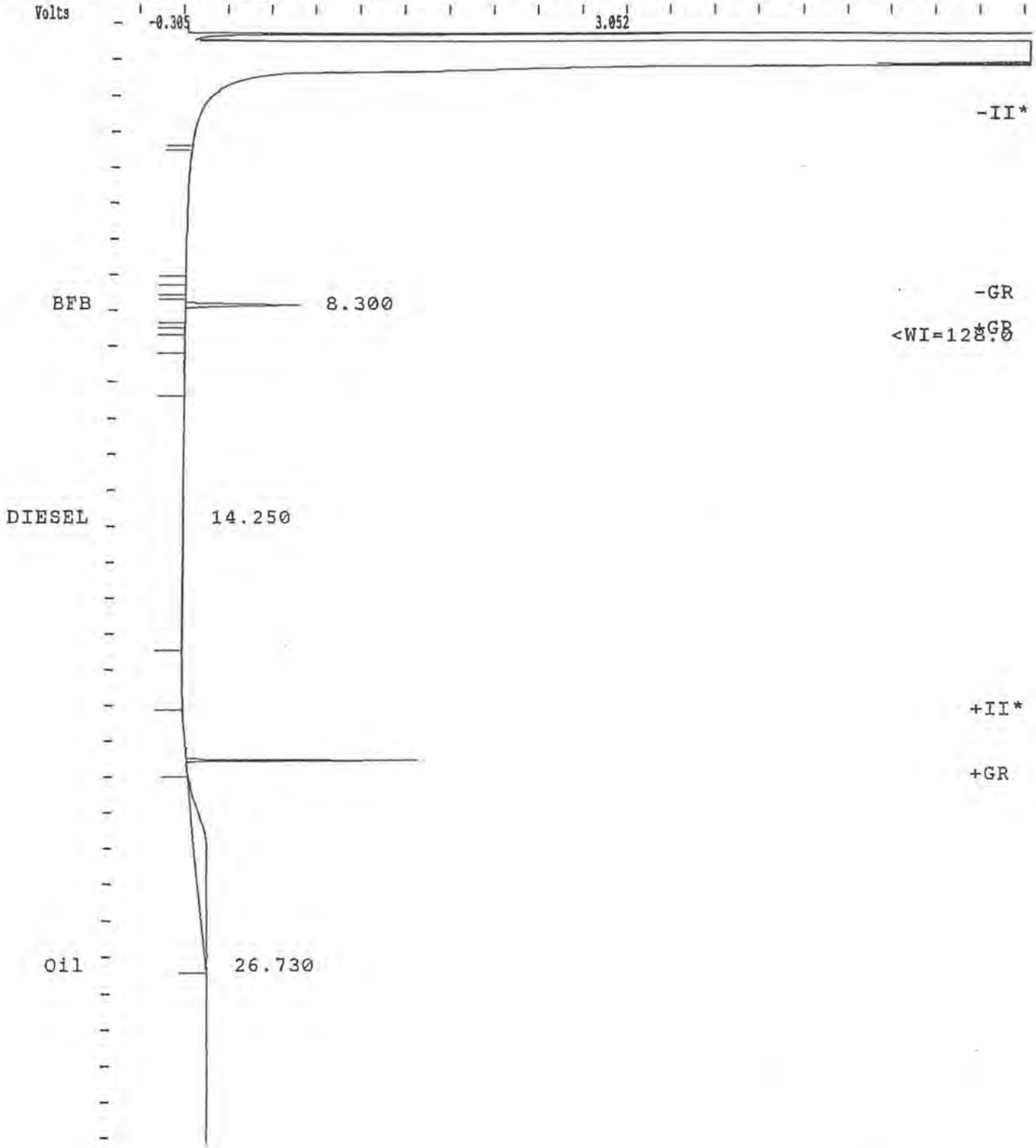
ction Date: 29-APR-99 5:20 PM Calculation Date: 29-APR-99 5:52 PM

ator : MD
station: MS-DOS_6
rument : Varian Star #2
ıel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ıple ID : 2018 ceti

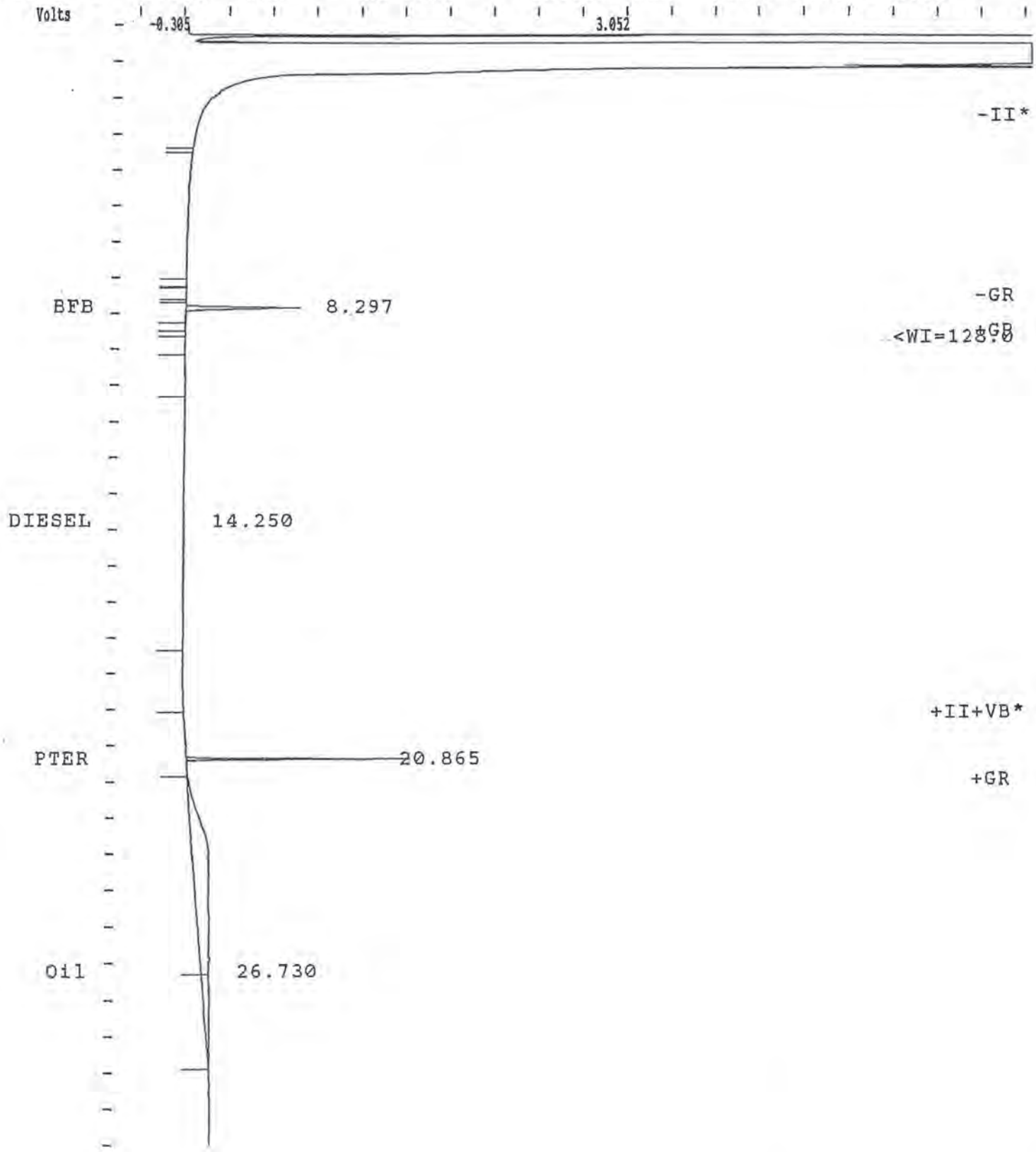
jection Date: 29-APR-99 6:00 PM Calculation Date: 29-APR-99 6:32 PM

ɜrator : MD
rkstation: MS-DOS_6
ɜtrument : Varian Star #2
.nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 ***************

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
art Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



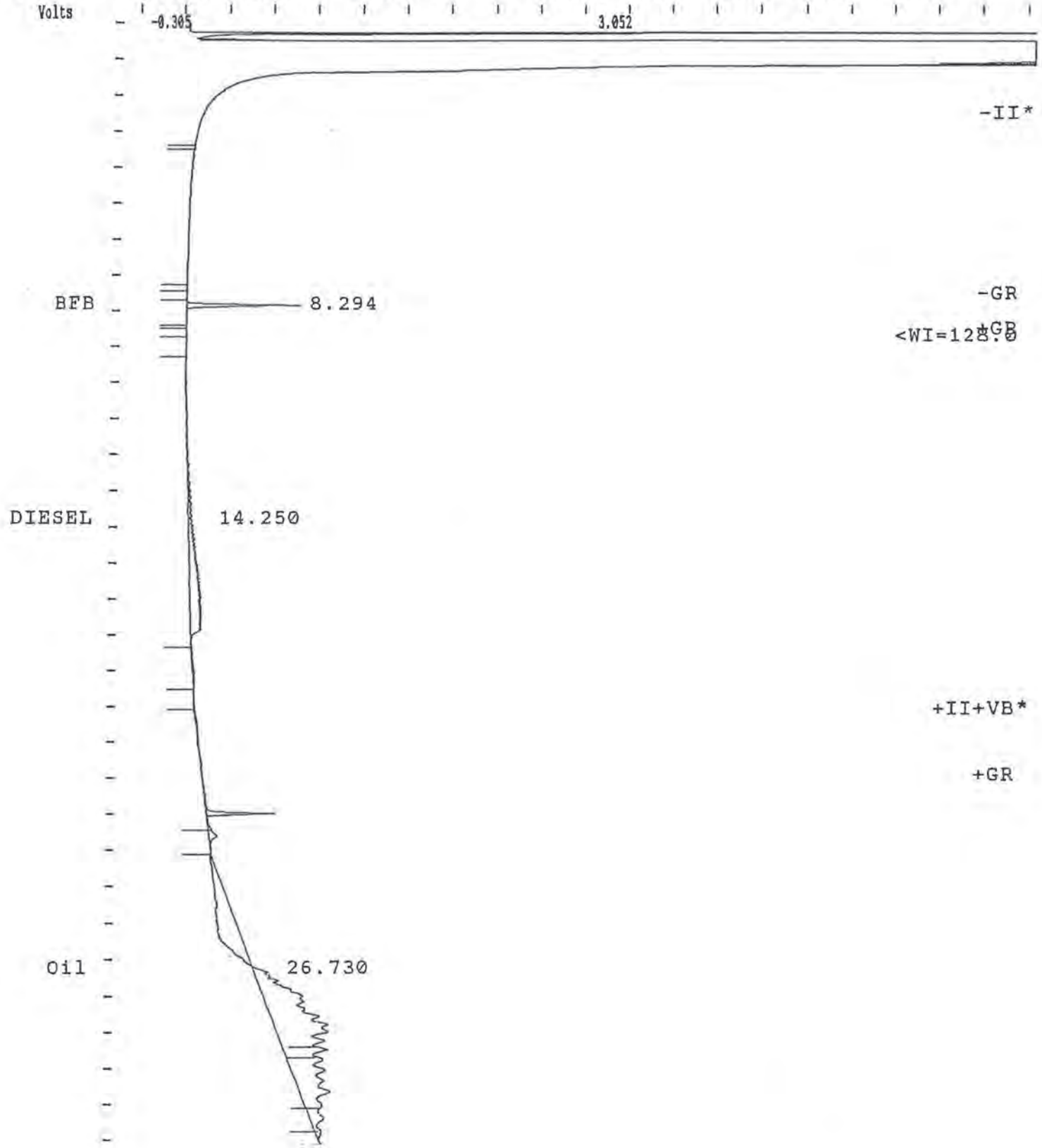
le ID : 2019 ceti

ction Date: 30-APR-99 1:09 AM Calculation Date: 30-APR-99 1:42 AM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

t Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
t Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 2020 ceti

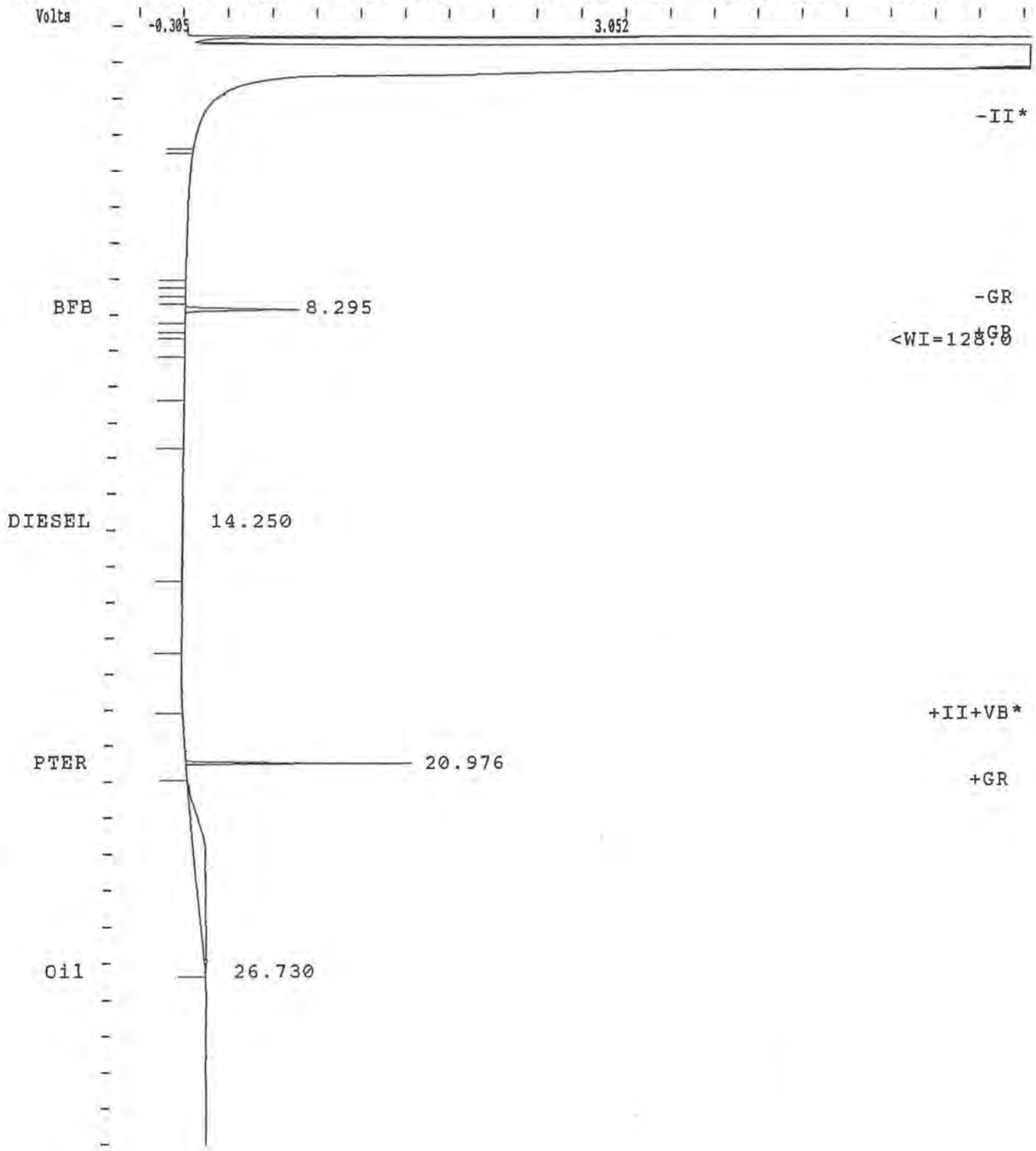
jection Date: 29-APR-99 6:39 PM Calculation Date: 29-APR-99 7:11 PM

rator : MD
:kstation: MS-DOS_6
:trument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
ırt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



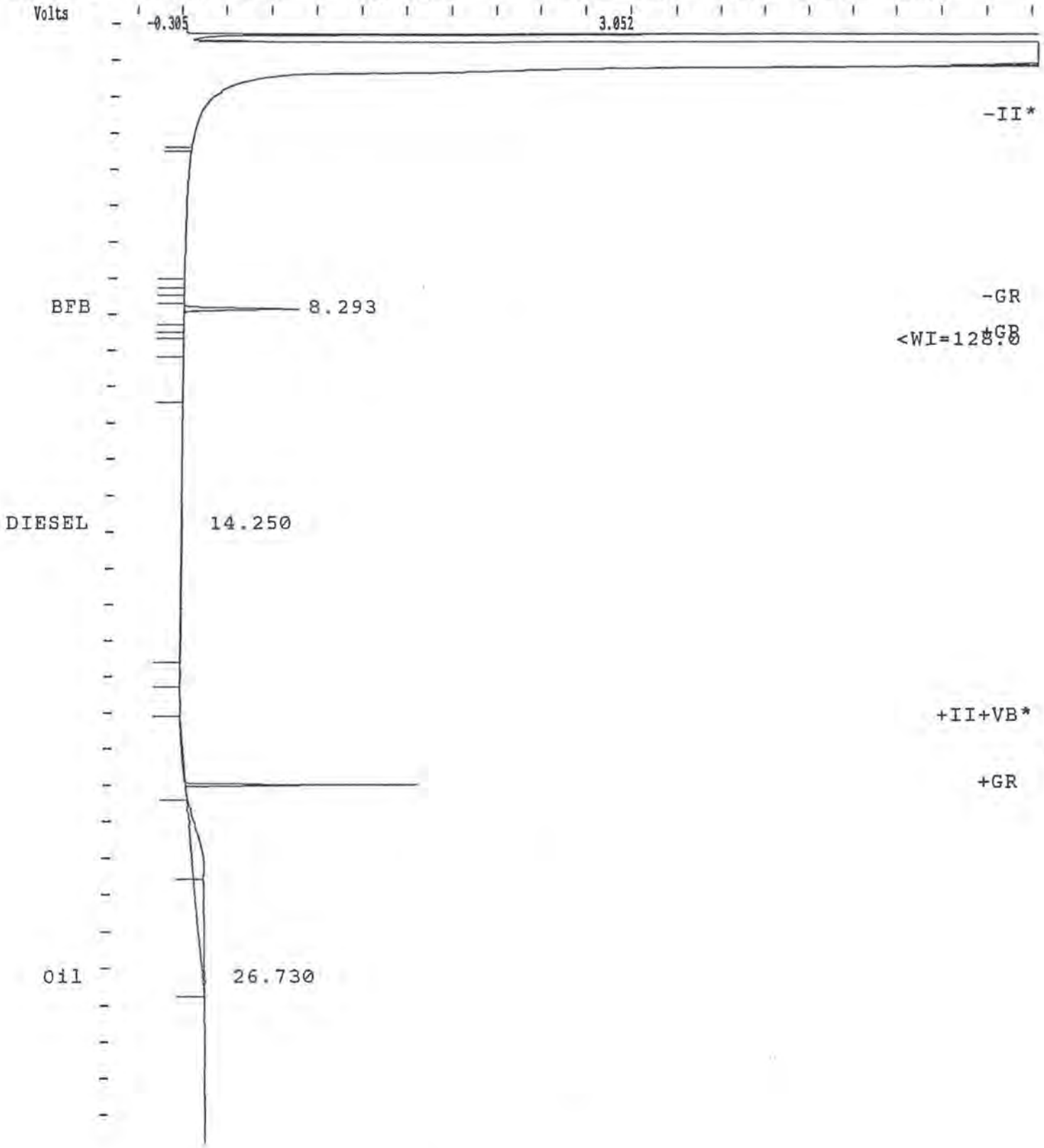
od File : C:\STAR\WD4.MIN
le ID : 2021 ceti

ction Date: 29-APR-99 7:18 PM Calculation Date: 29-APR-99 7:50 PM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ıple ID : 2022 ceti

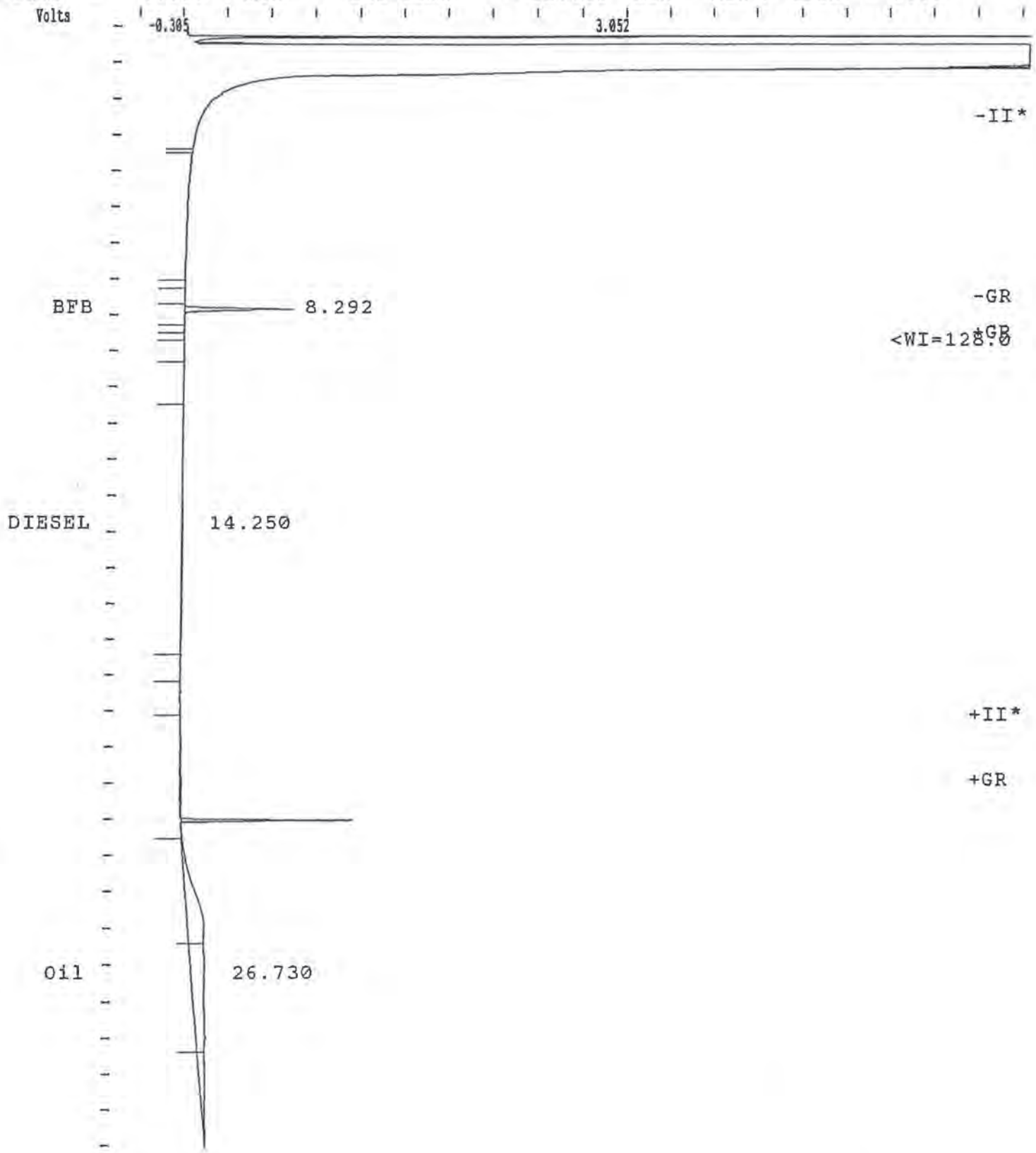
jection Date: 29-APR-99 7:57 PM Calculation Date: 29-APR-99 8:29 PM

ɜrator : MD
ɪkstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
art Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



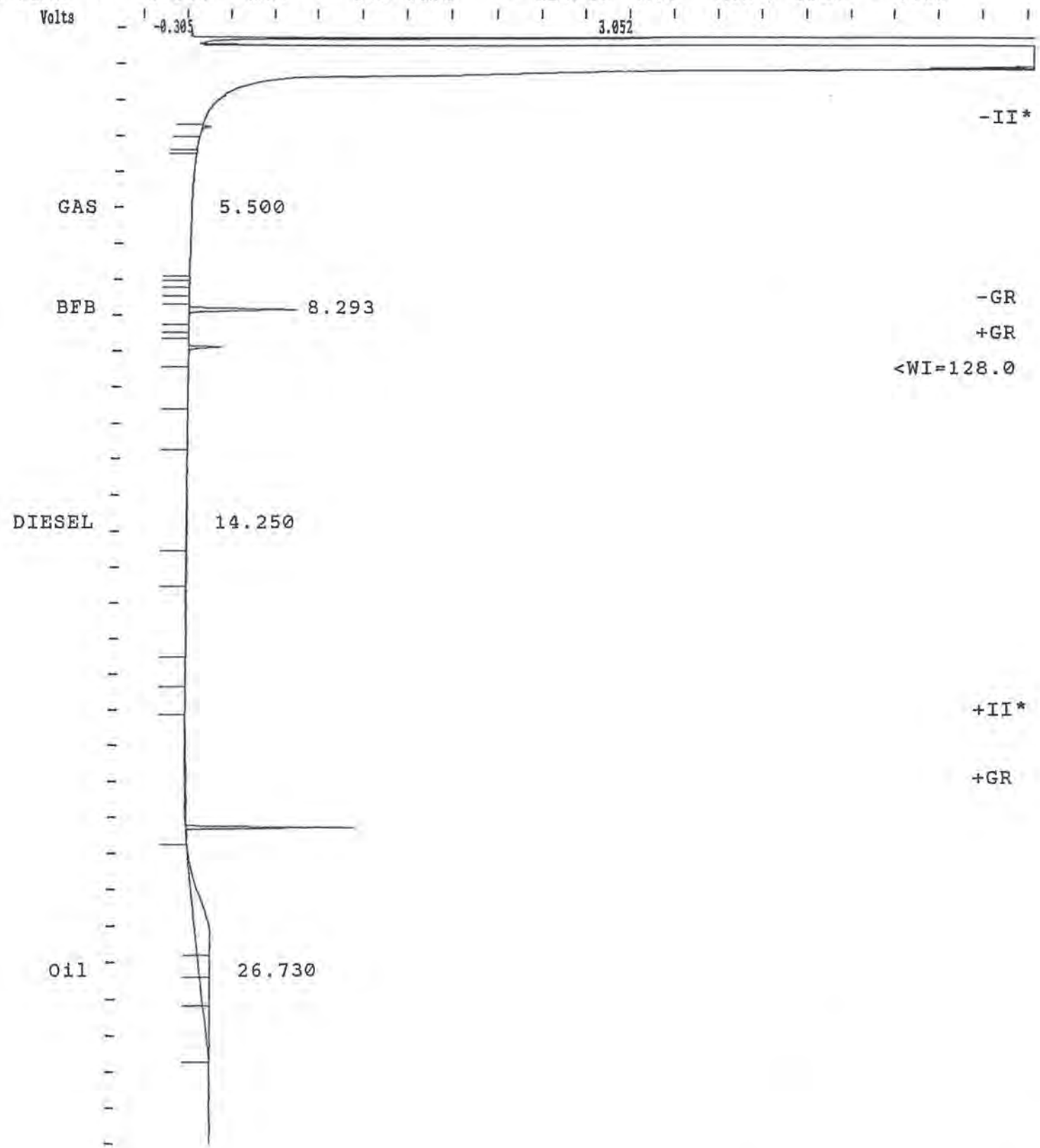
le ID : 2023 ceti

ction Date: 29-APR-99 8:36 PM Calculation Date: 29-APR-99 9:08 PM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

t Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
t Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 2024 ceti

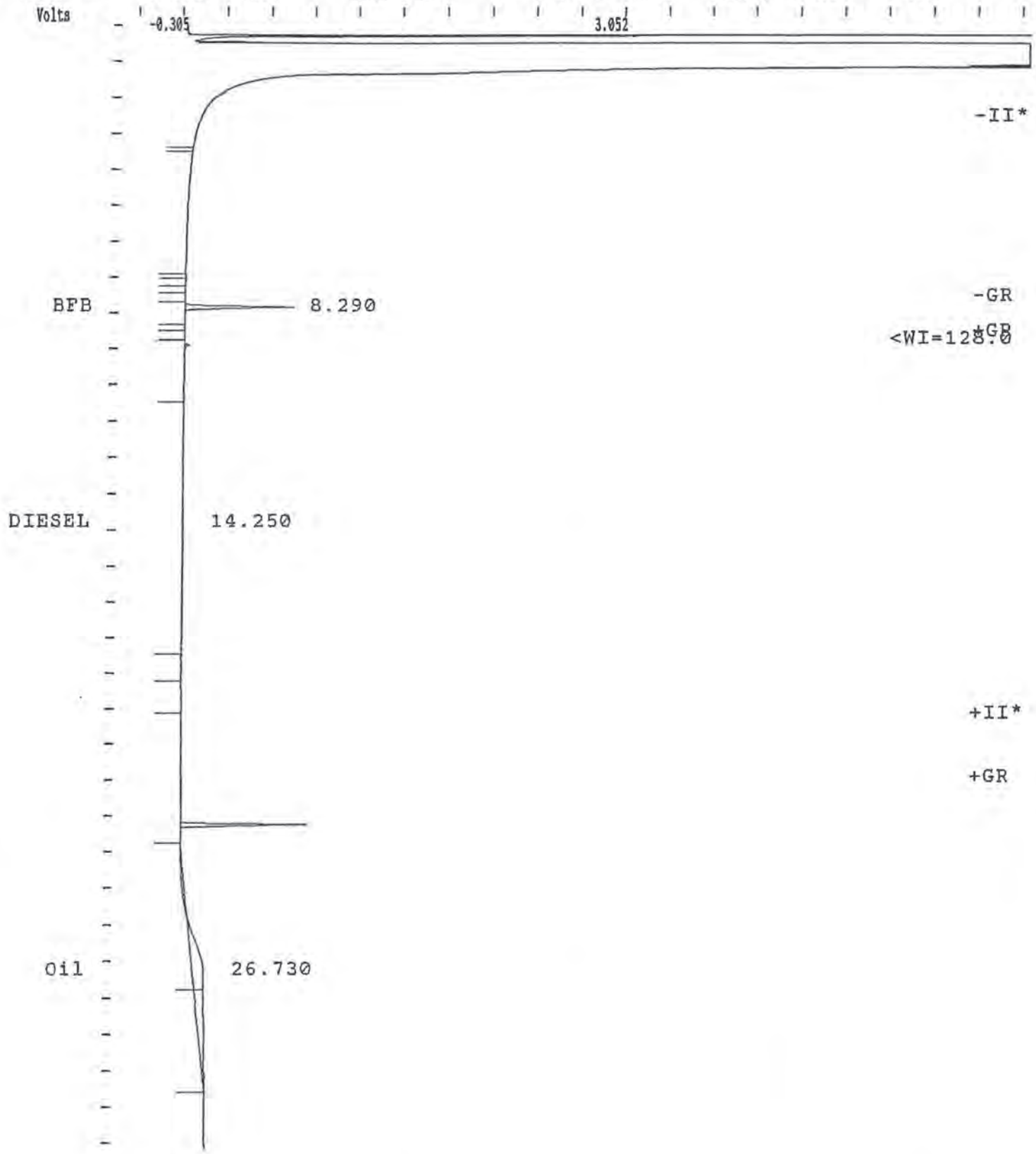
jection Date: 29-APR-99 9:15 PM Calculation Date: 29-APR-99 9:48 PM

rator : MD
kstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
art Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



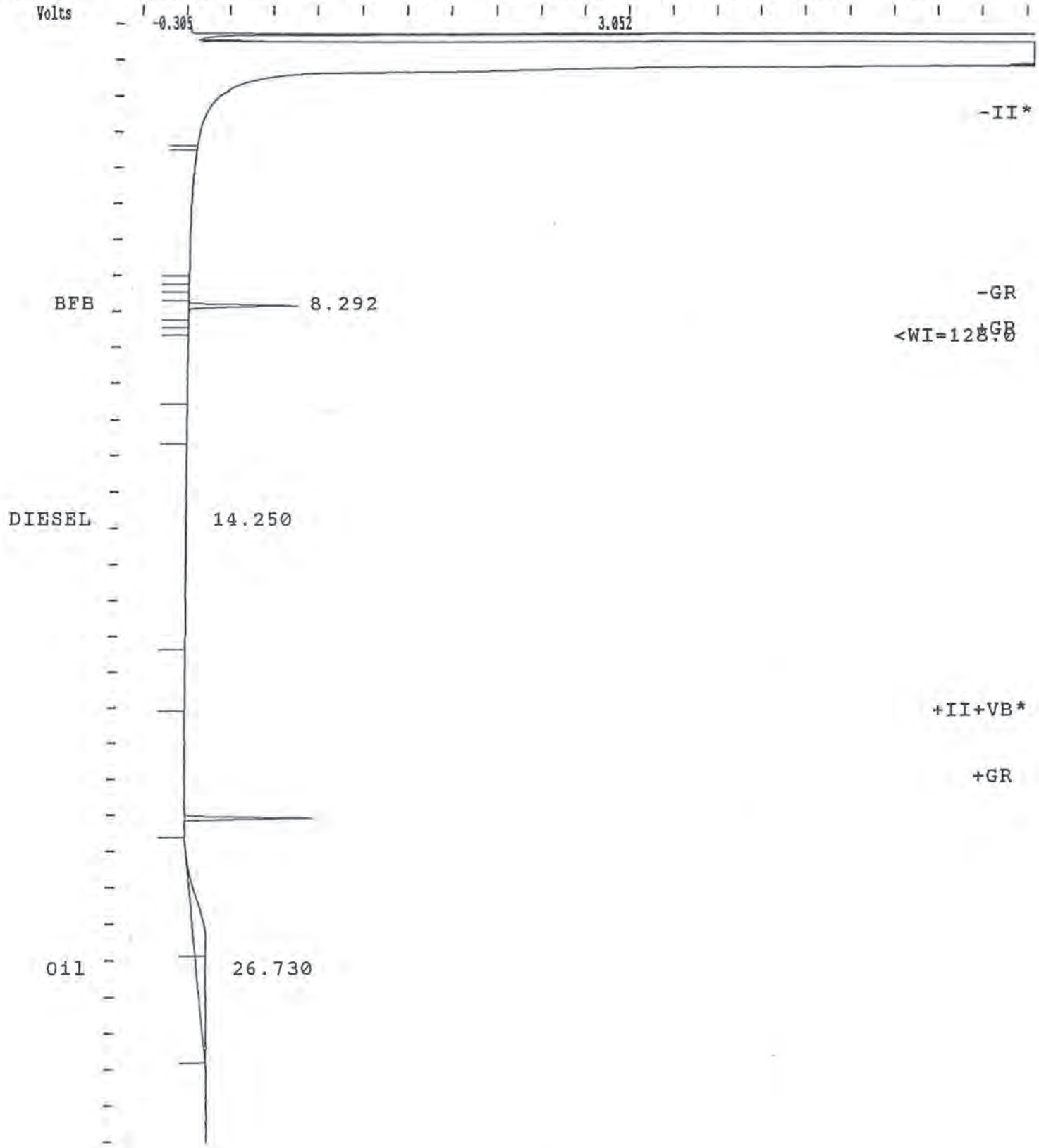
le ID : 2025 ceti

ction Date: 29-APR-99 9:54 PM Calculation Date: 29-APR-99 10:27 PM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 2026 ceti

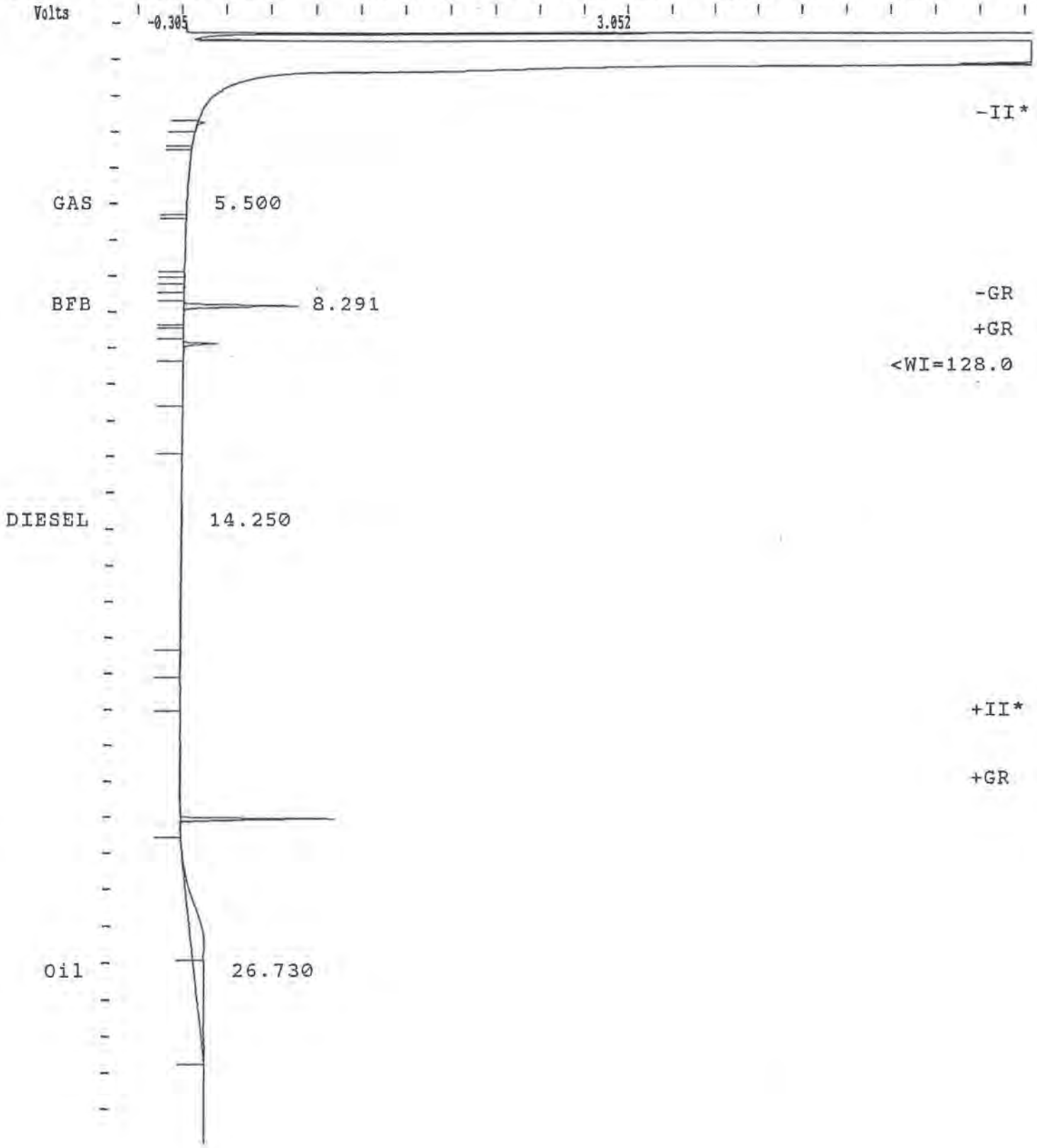
jection Date: 29-APR-99 10:34 PM Calculation Date: 29-APR-99 11:06 PM

rator : MD
ckstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
art Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



le ID : 2027 ceti

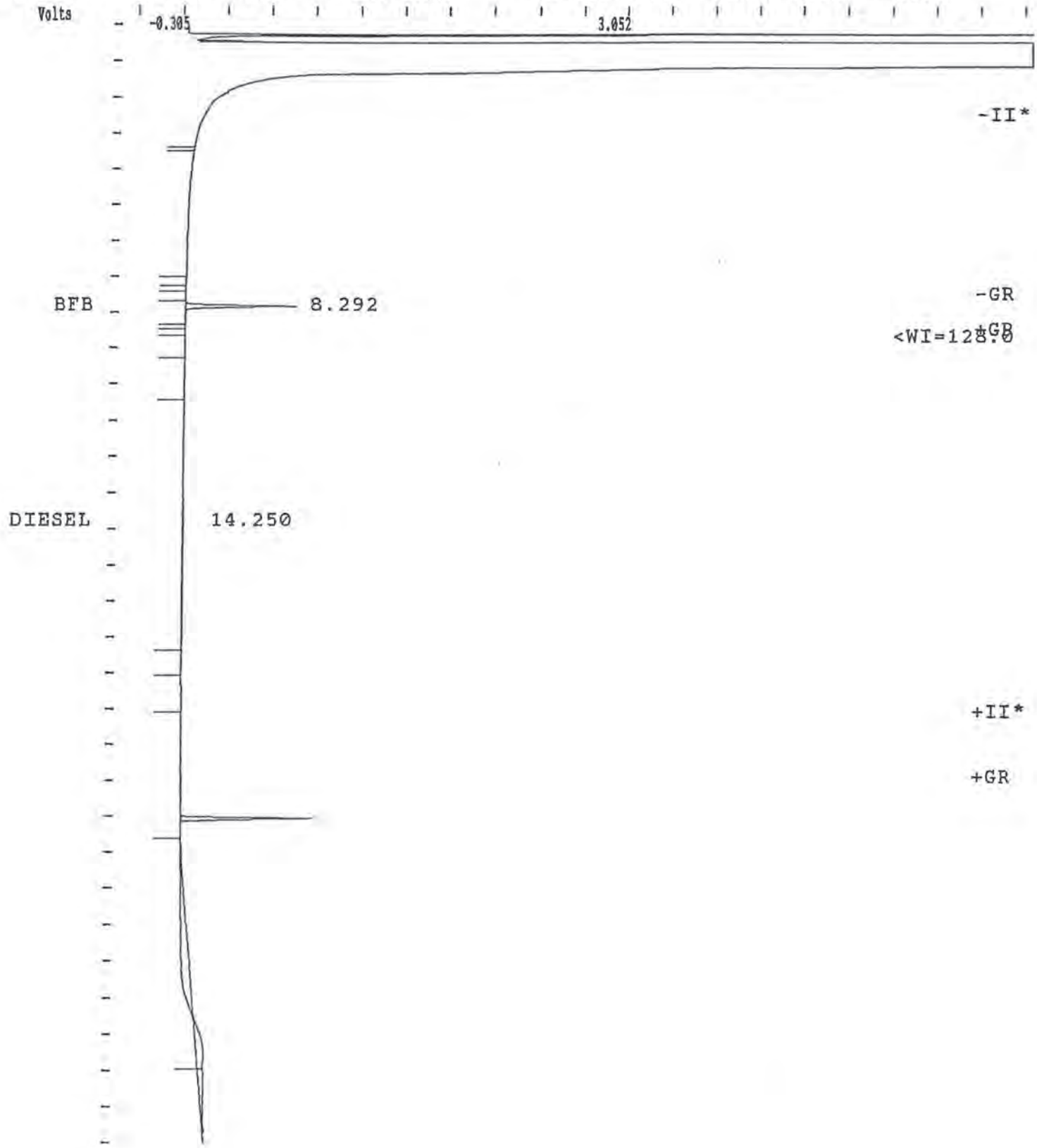
ction Date: 29-APR-99 11:13 PM Calculation Date: 29-APR-99 11:45 PM

ator : MD
station: MS-DOS_6
rument : Varian Star #2
nel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

******* Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 2028 ceti

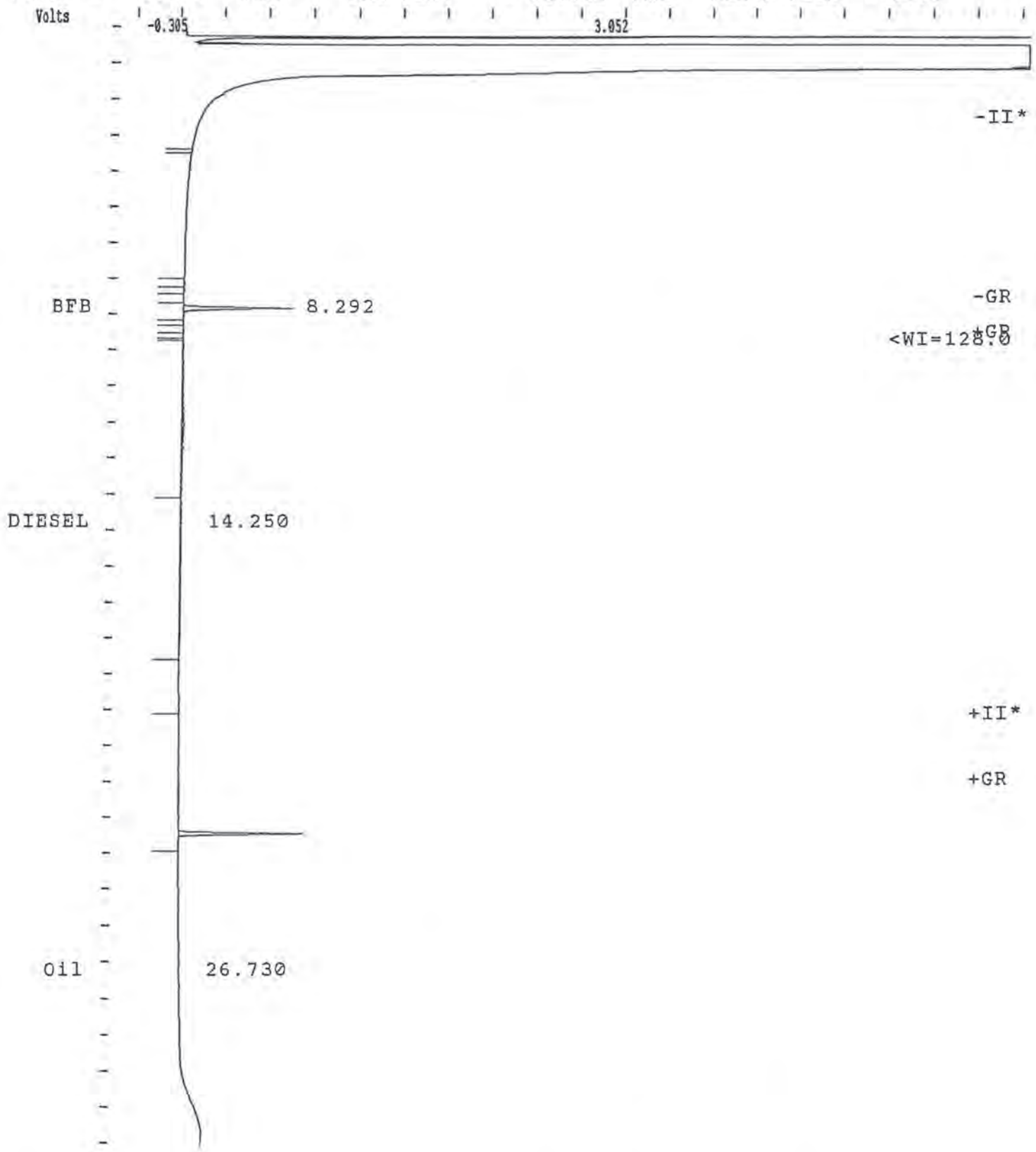
jection Date: 29-APR-99 11:52 PM Calculation Date: 30-APR-99 0:24 AM

rator : MD
.kstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
irt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



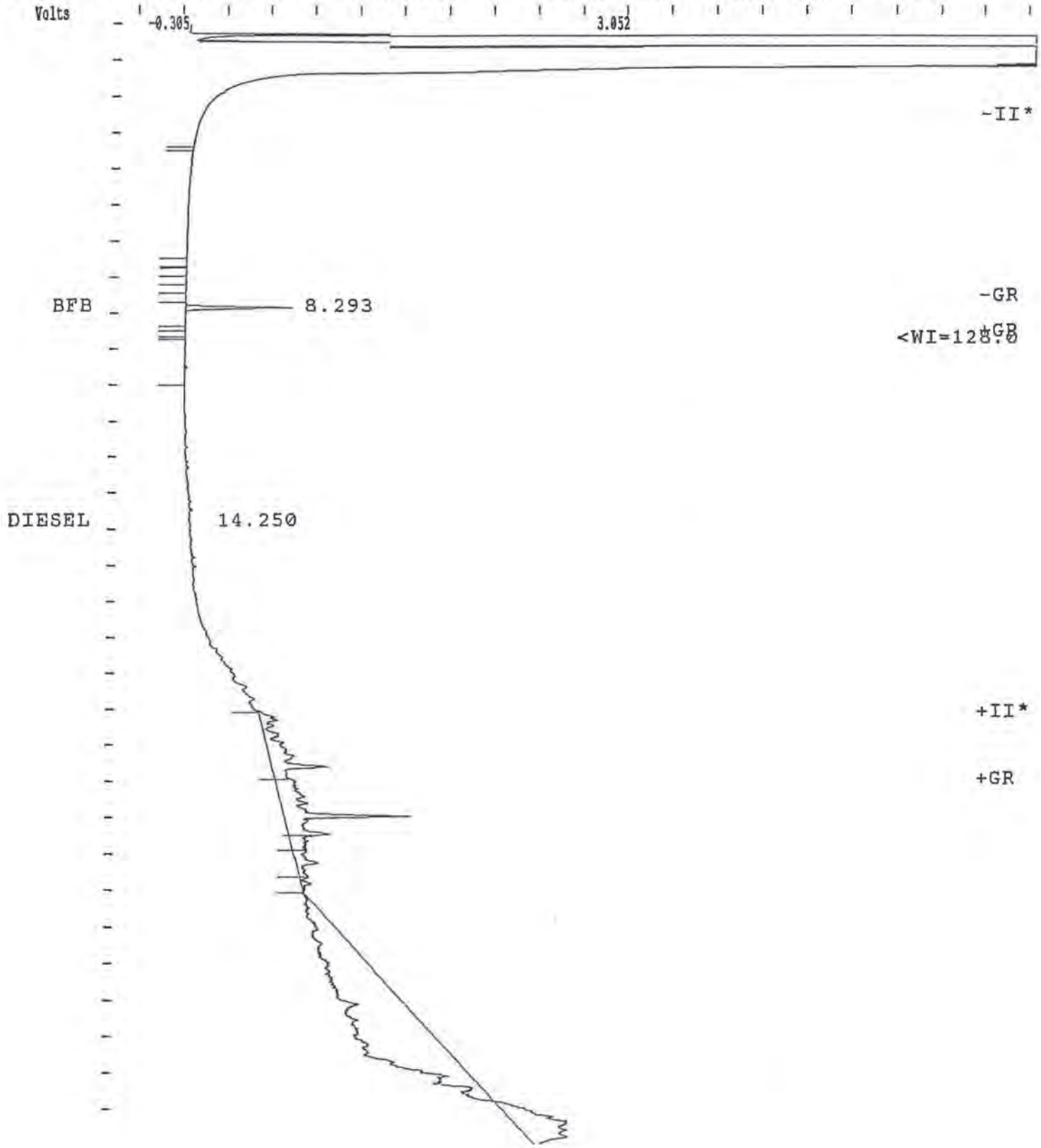
le ID : 2029 ceti

ction Date: 30-APR-99 0:31 AM Calculation Date: 30-APR-99 1:03 AM

ator : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

****** Star Chromatography Software ********** Version 4.0 **********

: Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
: Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



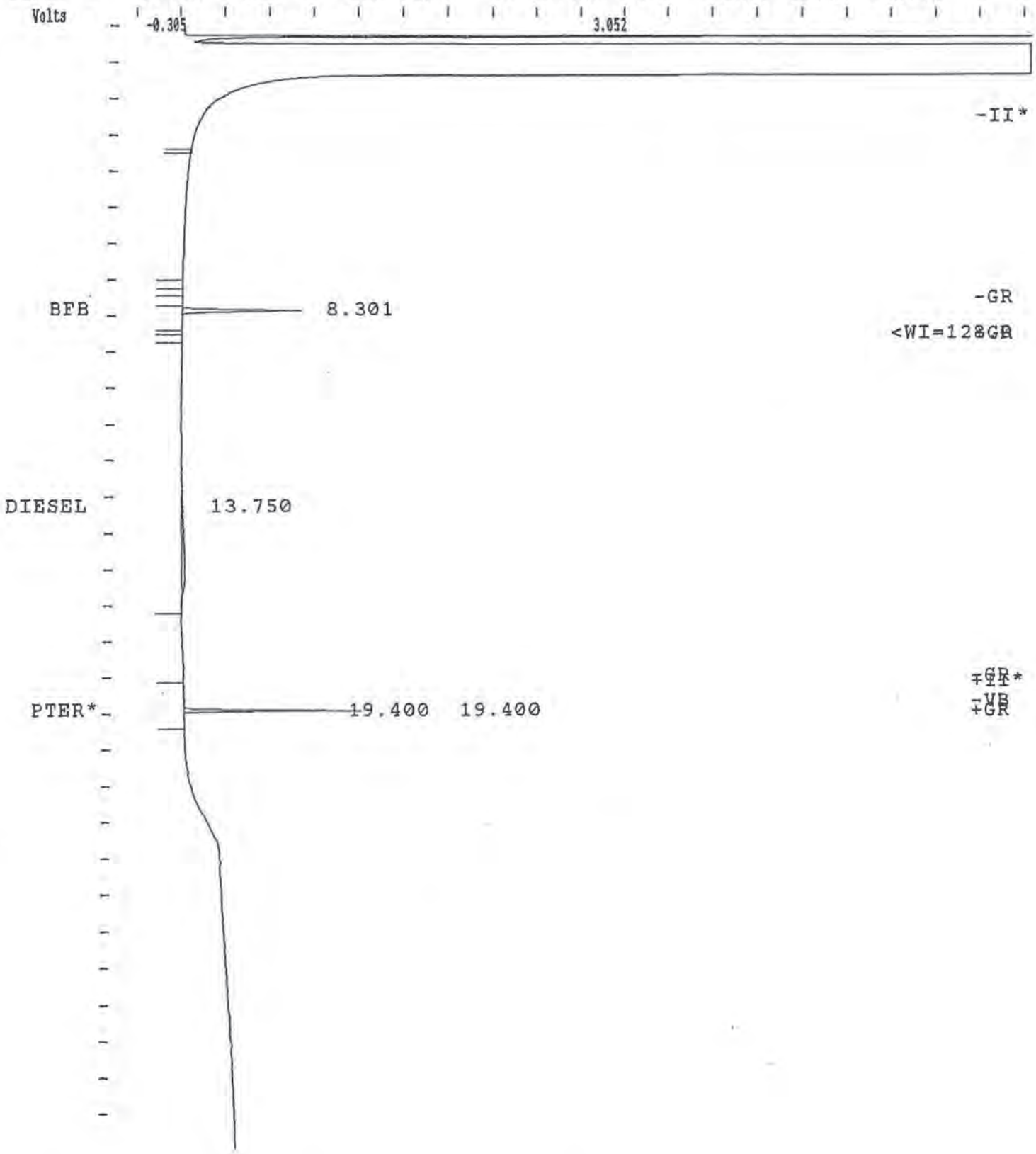
ple ID : 2104 ceti

jection Date: 30-APR-99 6:11 PM Calculation Date: 30-APR-99 6:43 PM

rator : MD Detector Type: ADCB (10 Volts)
:kstation: MS-DOS_6 Bus Address : 22
:trument : Varian Star #2 Sample Rate : 10.00 Hz
nnel : B = FID-B Run Time : 32.002 min

******** Star Chromatography Software ********** Version 4.0 **********

ct Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
rt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



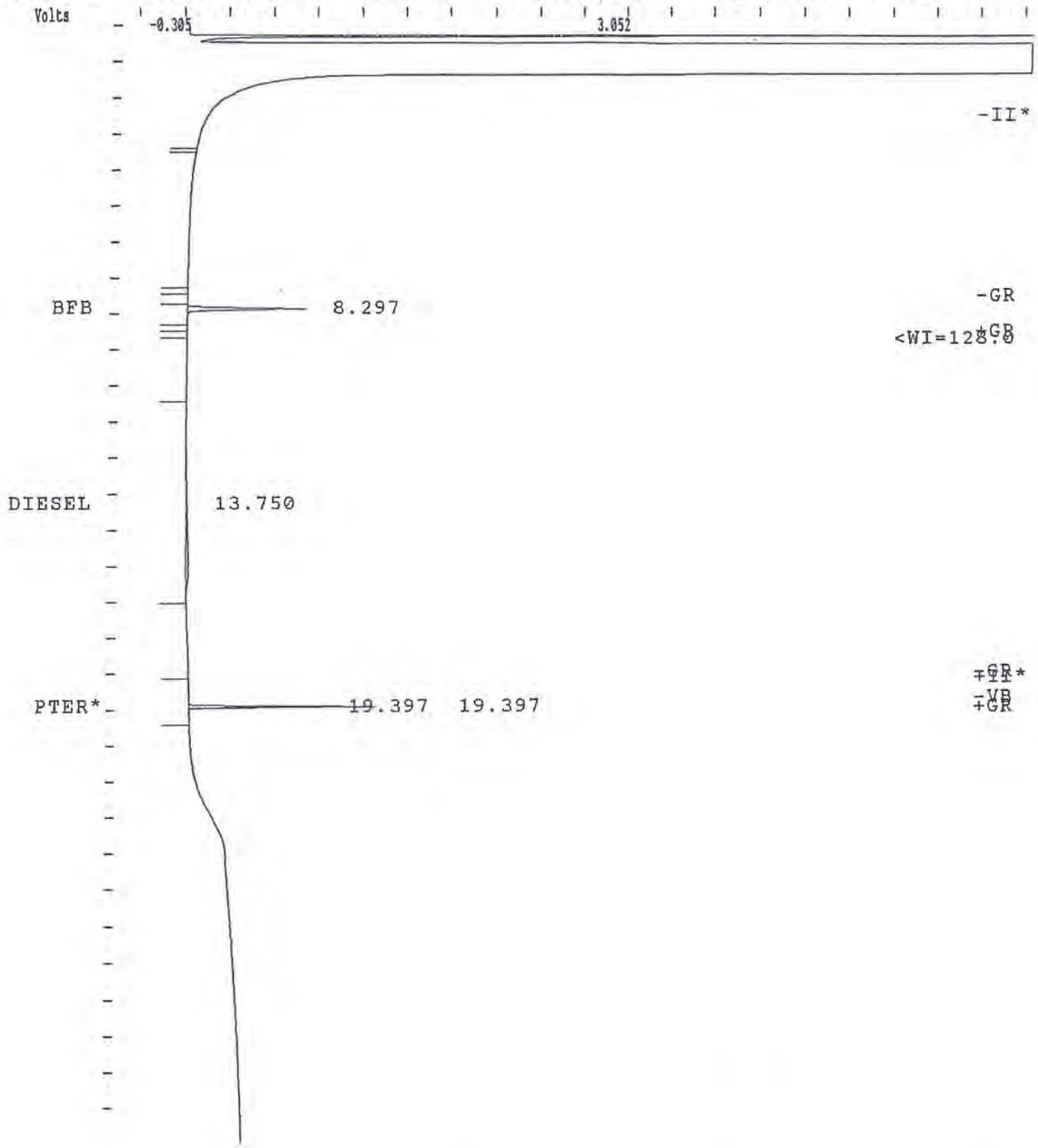
le ID : 2105 ceti

ction Date: 30-APR-99 6:51 PM Calculation Date: 30-APR-99 7:23 PM

itor : MD Detector Type: ADCB (10 Volts)
station: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
iel : B = FID-B Run Time : 32.002 min

****** Star Chromatography Software ********** Version 4.0 **********

Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00

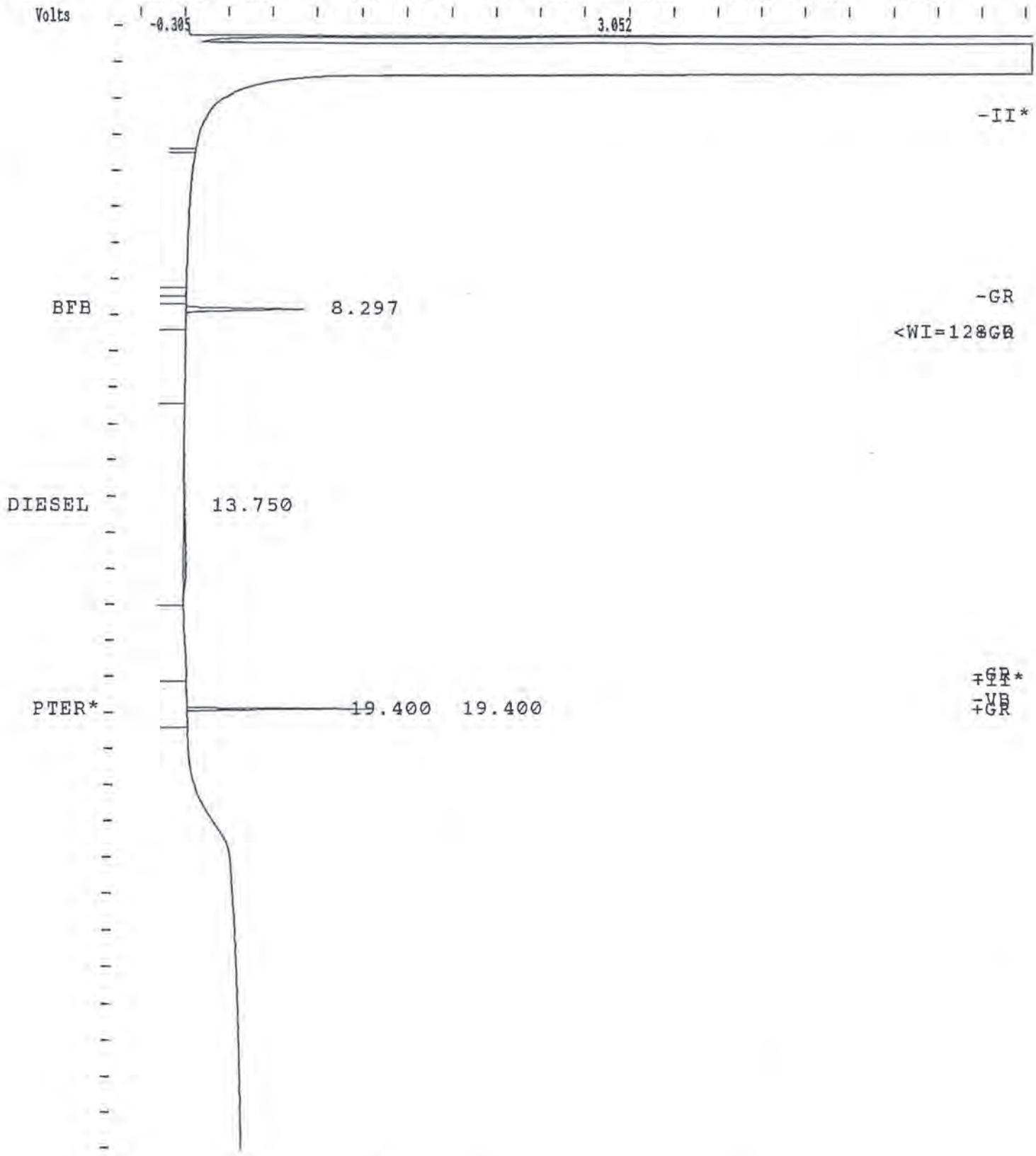


...e File : C:\STAR\WD4.MTH
ple ID : ~~2100~~ 2106 ceti
jection Date: 30-APR-99 7:31 PM Calculation Date: 30-APR-99 8:03 PM

rator : MD Detector Type: ADCB (10 Volts)
:kstation: MS-DOS_6 Bus Address : 22
·trument : Varian Star #2 Sample Rate : 10.00 Hz
nnel : B = FID-B Run Time : 32.002 min

:******** Star Chromatography Software ********** Version 4.0 ***************

:t Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
irt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ɔd File : C:\STAR\WD4.MTH
.e ID : 2107 ceti

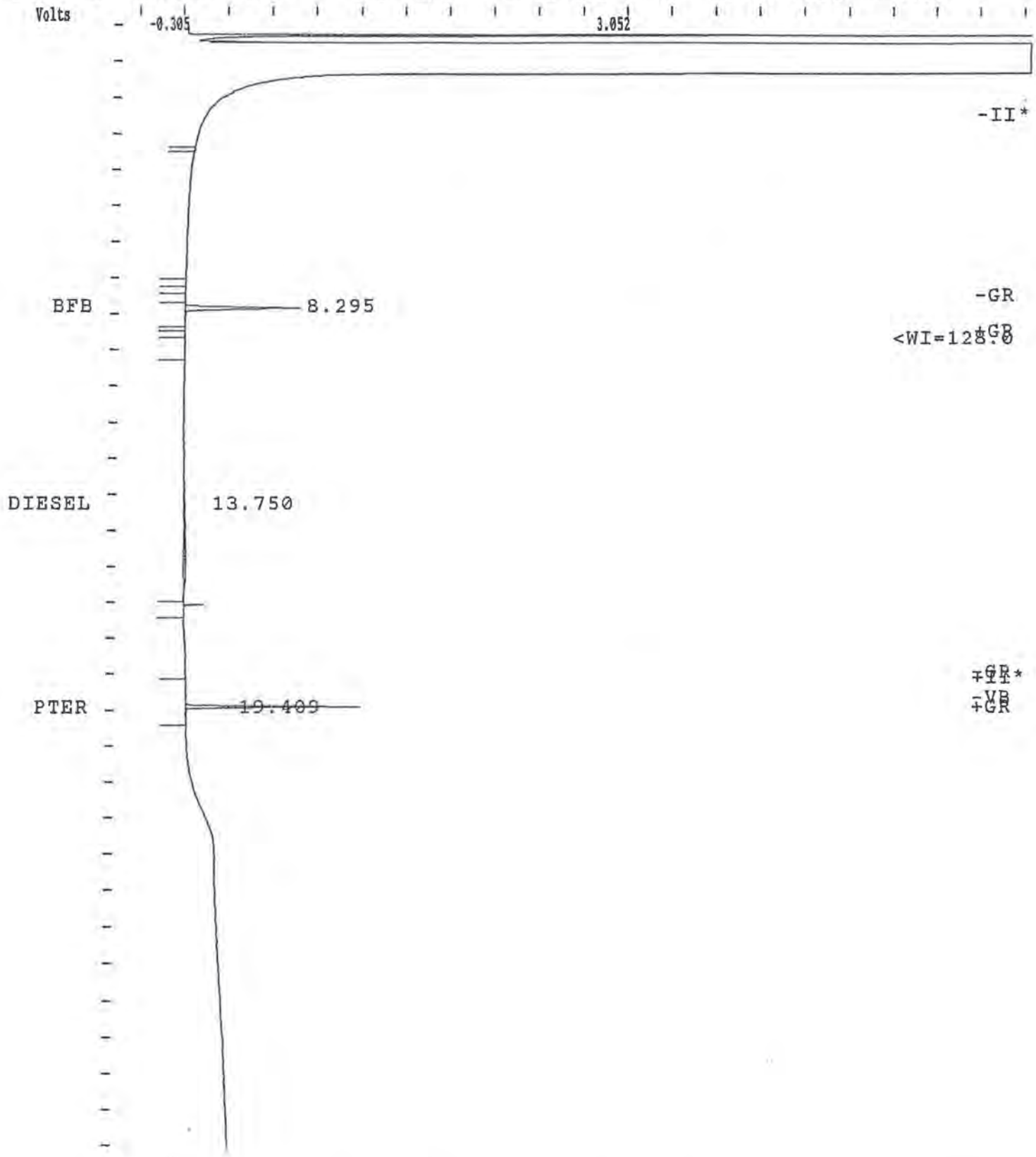
:tion Date: 30-APR-99 8:10 PM Calculation Date: 30-APR-99 8:43 PM

ıtor : MD
:tation: MS-DOS_6
:ument : Varian Star #2
ıel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

·****** Star Chromatography Software ********** Version 4.0 **********

. Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
. Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



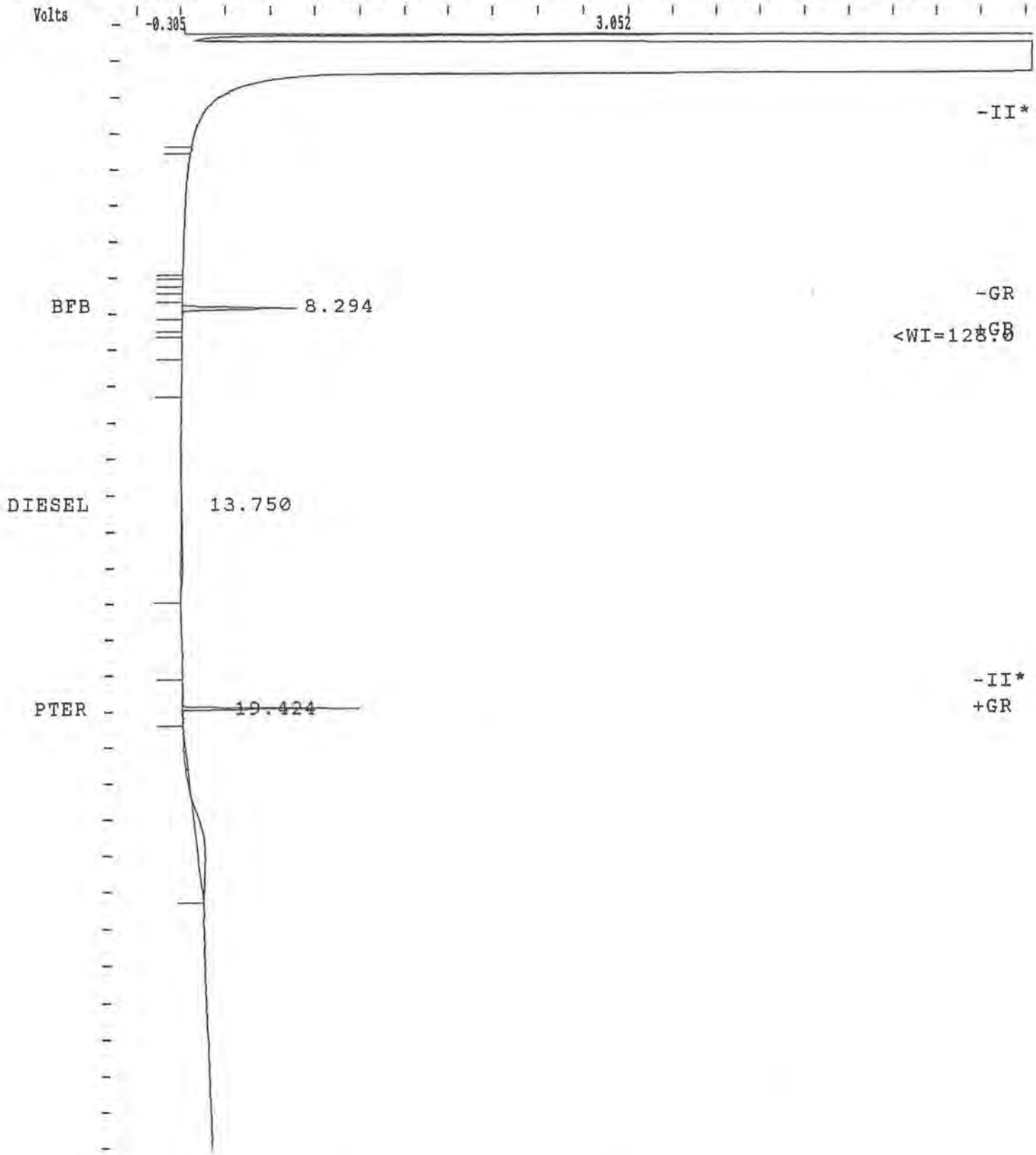
ple ID : 2108 ceti

jection Date: 30-APR-99 8:50 PM Calculation Date: 30-APR-99 9:22 PM

rator : MD Detector Type: ADCB (10 Volts)
:kstation: MS-DOS_6 Bus Address : 22
ɔtrument : Varian Star #2 Sample Rate : 10.00 Hz
ɔnel : B = FID-B Run Time : 32.002 min

********* Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
ırt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



:e ID : 2109 ceti

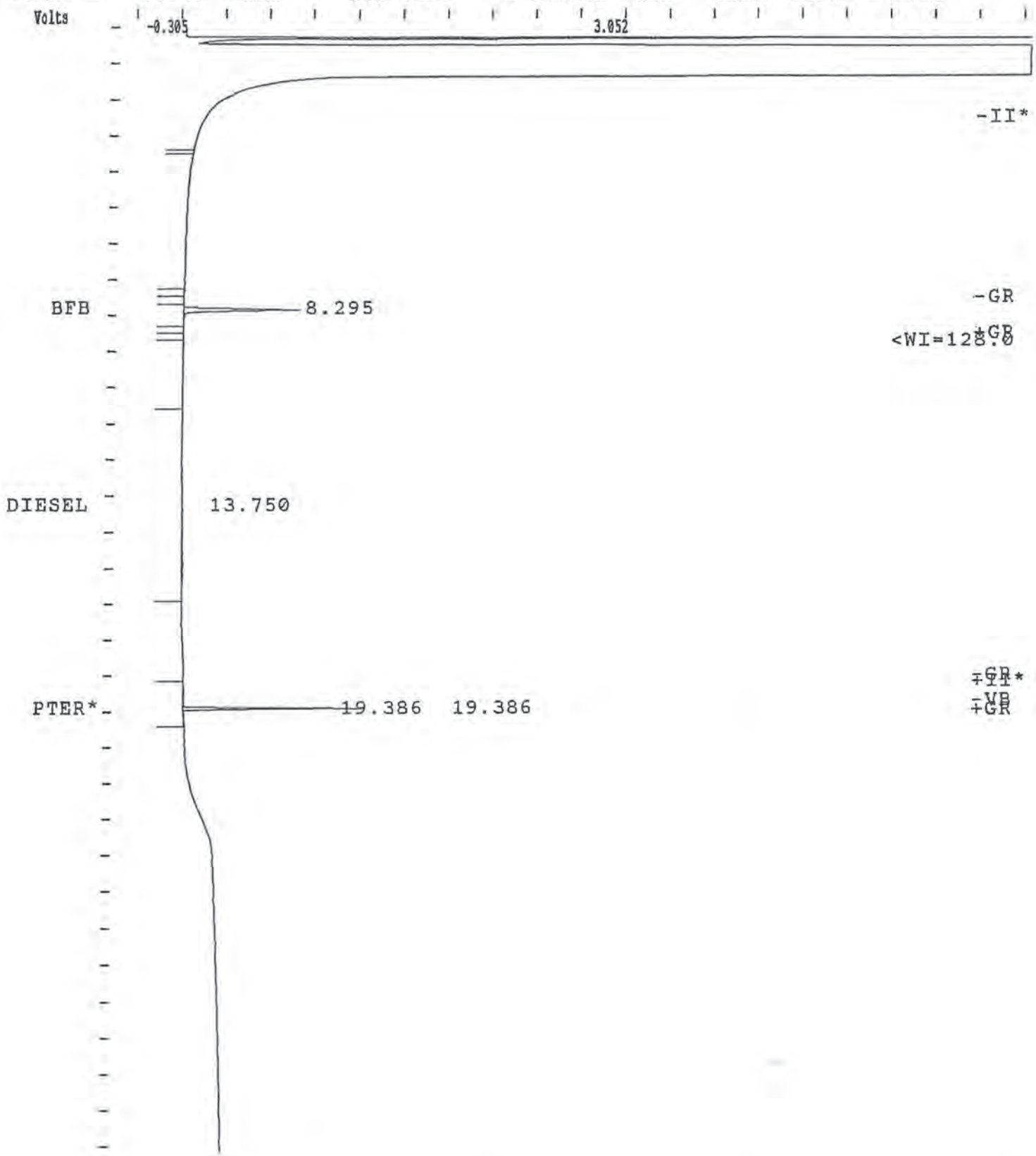
:tion Date: 30-APR-99 9:30 PM Calculation Date: 30-APR-99 10:02 PM

ıtor : MD
ıtation: MS-DOS_6
:ument : Varian Star #2
ıel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

****** Star Chromatography Software ********** Version 4.0 **********

Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



ple ID : 2110 ceti

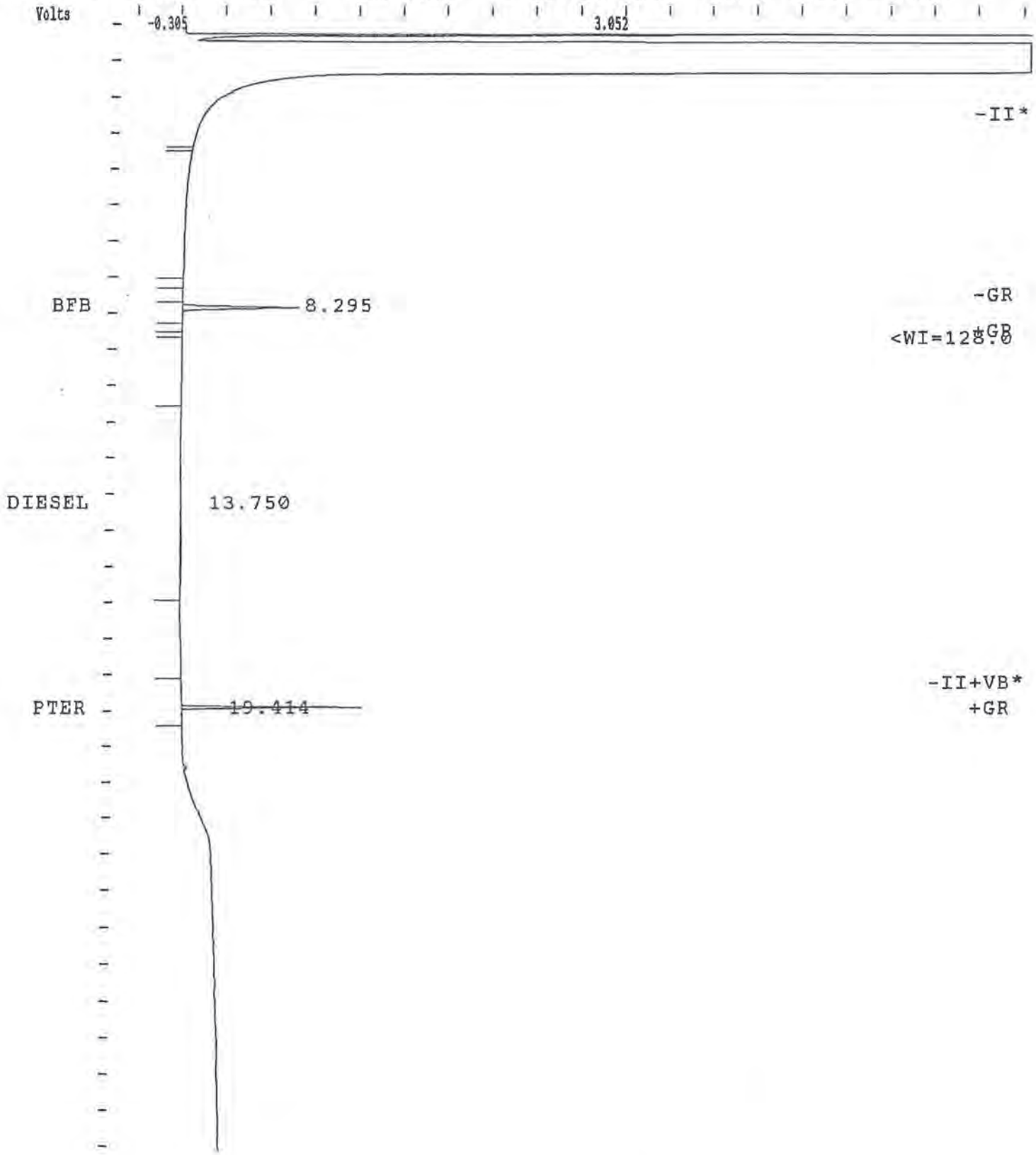
jection Date: 30-APR-99 10:09 PM Calculation Date: 30-APR-99 10:42 PM

rator : MD
.kstation: MS-DOS_6
strument : Varian Star #2
nnel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

******** Star Chromatography Software ********** Version 4.0 **********

ct Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
rt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



le ID : 2111 ceti

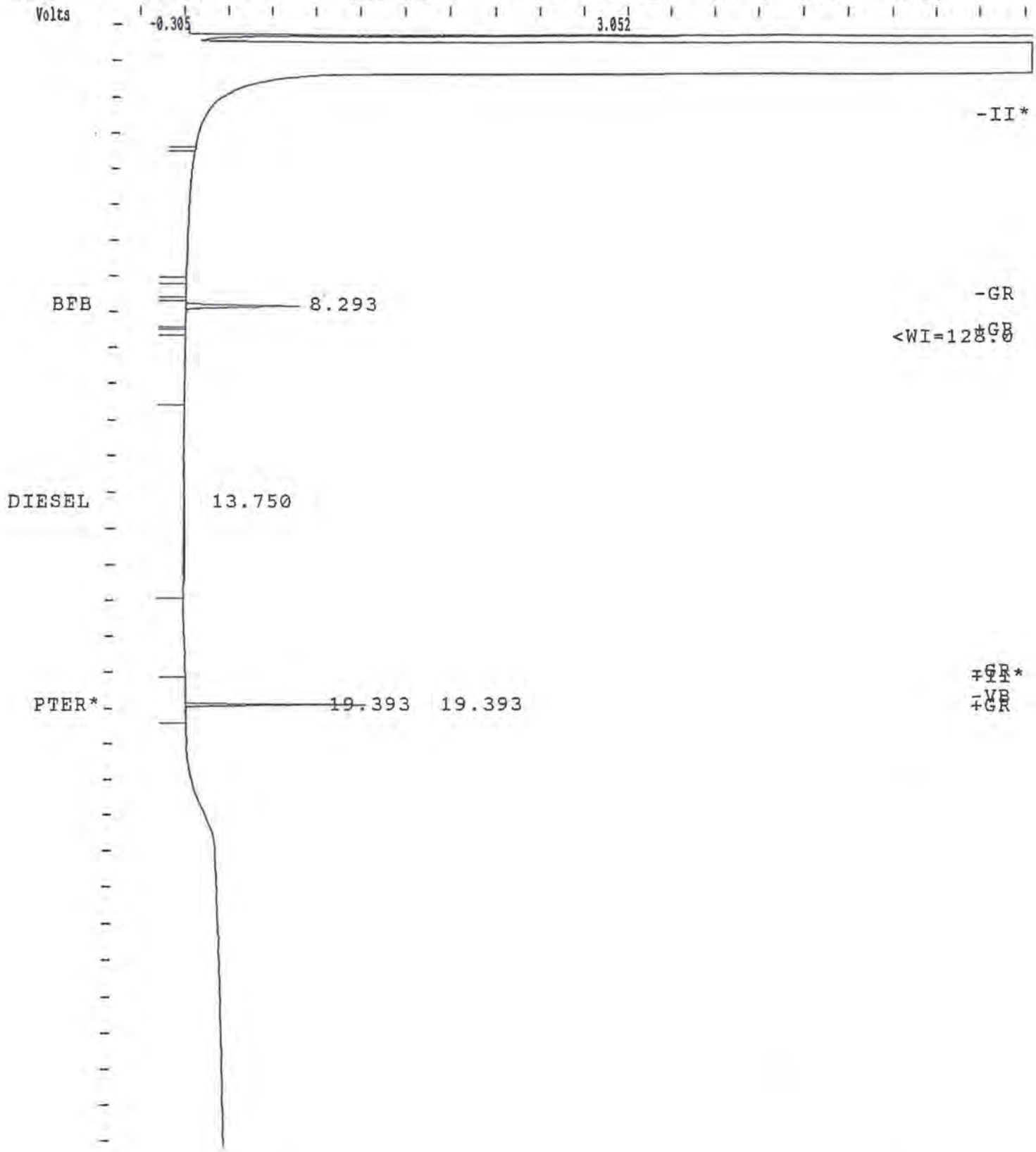
ction Date: 30-APR-99 10:49 PM Calculation Date: 30-APR-99 11:21 PM

ator : MD
station: MS-DOS_6
cument : Varian Star #2
nel : B = FID-B

Detector Type: ADCB (10 Volts)
Bus Address : 22
Sample Rate : 10.00 Hz
Run Time : 32.002 min

****** Star Chromatography Software ********** Version 4.0 **********

Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



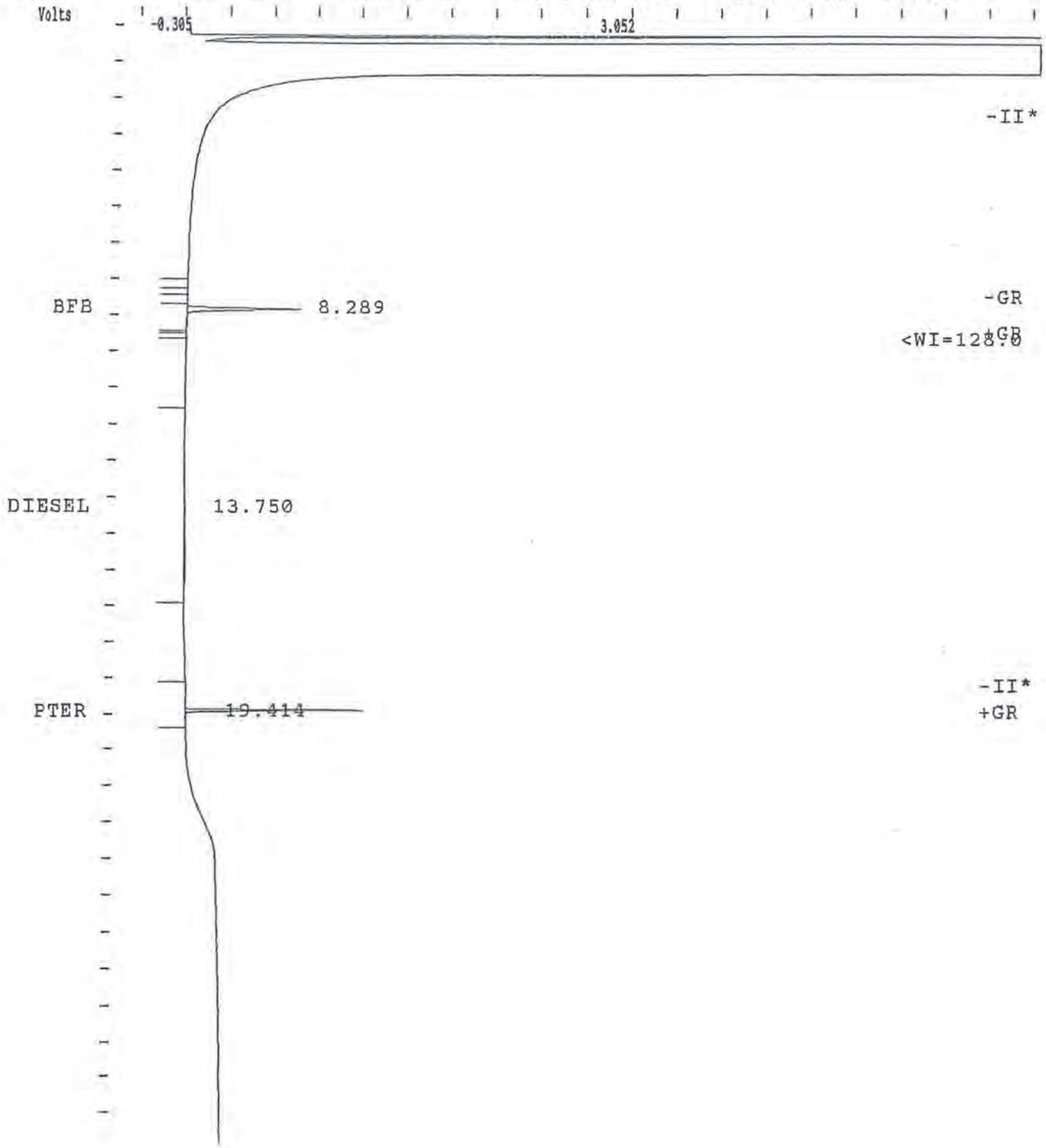
hod File : C:\STAR\WD4.MTH
ple ID : 2112 ceti

ection Date: 3-MAY-99 3:58 PM Calculation Date: 3-MAY-99 4:31 PM

rator : MD Detector Type: ADCB (10 Volts)
kstation: MS-DOS_6 Bus Address : 22
rument : Varian Star #2 Sample Rate : 10.00 Hz
nel : B = FID-B Run Time : 32.002 min

******** Star Chromatography Software ********** Version 4.0 **********

rt Speed = 0.66 cm/min Attenuation = 2500 Zero Offset = 5%
rt Time = 0.500 min End Time = 32.002 min Min / Tick = 1.00



CHAIN OF CUSTODY

SPECTRA Laboratories, Inc.
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838

RCRA-13

CLIENT: Metal Marine Pilot/CETI
PROJECT:
CONTACT: Janet Freeman-Daily
PHONE: (253) 564-5902
PURCHASE ORDER #:

SAMPLE ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS							ORGANICS						TCLP D-LIST					METALS			OTHER									RETURN / DISPOSE (Fee applies) / LAB ID
					WTPH-HCID	BTEX/WTPH-G	BTEX	WTPH-G	WTPH-D	TPH	F.O.G. 413.1/413.2	8260 VOA	8260 CHLOR SOLVENTS	8270 SEMI-VOA	PAH/PNA-8270	8080 ORG. CHLOR PEST.	8082 PCB	TCLP METALS (8)	TCLP-VOA	TCLP 8270 SEMI-VOA	TCLP PEST.	TCLP HERB.	TOTAL METALS ICP/DCP	TOTAL METALS GFAA	TOTAL LEAD	pH 9040/9045	TOX 9020/9076	TOC 9060/PSEP	FLASH POINT	SOLIDS (SPECIFY)					NORMAL / RUSH	
S1-42699	4.26.99	3:40	Soil/H2O	1						X													X				X								

SPECIAL INSTRUCTIONS/COMMENTS:
call # 606 2173 (Janet)
call both Janet and CETI when results come back.

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	[signature]	Fritz A. Carmine	CETI	4.26.99	4:40
RECEIVED BY	[signature]	MARIE HALT	SPECTRA	4-26-99	4:41
RELINQUISHED BY					
RECEIVED BY					

Payment Terms: Net 30 days. Past due accounts subject to 18% per annum interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other associated costs of collection regardless of whether suit is filed.

CHAIN of CUSTODY

PAGE 1 of 1

SPECTRA Laboratories, Inc.
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838

CLIENT: CETI
PROJECT: Metal Marine 103-1
CONTACT: Steve Spencer
PHONE: 627-3347
PURCHASE ORDER #:

RETURN
DISPOSE
Fee applies

SAMPLE ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS: WTPH-HCID	BTEX/WTPH-G	BTEX	WTPH-G	WTPH-D	TPH	F.O.G. 413.1/413.2	ORGANICS: 8260 VOA	8260 CHLOR SOLVENTS	8270 SEMI-VOA	PAH/PNA-8270	8080 ORG. CHLOR PEST.	8082 PCB	TCLP D-LIST: TCLP METALS (8)	TCLP-VOA	TCLP 8270 SEMI-VOA	TCLP PEST.	TCLP HERB.	METALS: TOTAL METALS ICP/DCP	TOTAL METALS GFAA	TOTAL LEAD	OTHER: pH 9040/9045	TOX 9020/9076	TOC 9060/PSEP	FLASH POINT	SOLIDS (SPECIFY)					NORMAL/RUSH	LAB ID
S1	4-27-99		soil	1						X																										
S2	↓		↓	↓						↓																										
S3	↓		↓	↓						↓																										
S4	↓		↓	↓						↓																										
S5	↓		↓	↓						↓																										
S6	↓		↓	↓						↓																										
S7	↓		↓	↓						↓																										

SPECIAL INSTRUCTIONS/COMMENTS:

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	[signature]	Fritz Carmine	CETI	4-28-99	9:08
RECEIVED BY	D. Triska	D Triska	Spectra	4-28-99	9:15
RELINQUISHED BY					
RECEIVED BY					

Payment Terms: Net 30 days. Past due accounts subject to 18% per annum interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other associated costs of collection regardless of whether suit is filed.

CHAIN OF CUSTODY

SPECTRA Laboratories, Inc.
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838

CLIENT: CETI
PROJECT: Marine metal
CONTACT: Steve Spencer
PHONE: 627-3347
PURCHASE ORDER #: 103-1

SAMPLE ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	WTPH-HCID	BTEX/WTPH-G	BTEX	WTPH-G	WTPH-D EXT	TPH	F.O.G. 413.1/413.2	8260 VOA	8260 CHLOR SOLVENTS	8270 SEMI-VOA	PAH/PNA-8270	8080 ORG. CHLOR PEST.	8082 PCB	TCLP METALS (8)	TCLP-VOA	TCLP 8270 SEMI-VOA	TCLP PEST.	TCLP HERB.	TOTAL METALS ICP/DCP	TOTAL METALS GFAA	TOTAL LEAD	pH 9040/9045	TOX 9020/9076	TOC 9060/PSEP	FLASH POINT	SOLIDS (SPECIFY)					NORMAL / RUSH	LAB ID
S10-42899	4/28		Soil						X																											
S11-42899																																				
S12-42899																																				
S13-42899																																				
S14-42899																																				
S15-42899																																				
S16-42899																																				
S17-42899																																				
S23-42899																																				
S24-42899																																				

RETURN: DISPOSE (circled) — Fee applies

SPECIAL INSTRUCTIONS/COMMENTS:

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	[signature]	Fritz Carmine	CETI	4.28.99	4:50
RECEIVED BY	D. Trista	D. Trista	Spectra	4.28.99	4:50
RELINQUISHED BY					
RECEIVED BY					

Payment Terms: Net 30 days. Past due accounts subject to 18% per annum interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other associated costs of collection regardless of whether suit is filed.

CHAIN of CUSTODY

PAGE 2 of 2

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838

CLIENT: CETI

PROJECT: Marine Metal 103

CONTACT: Steve Spencer

PHONE: 627 3347

PURCHASE ORDER #: 103-1

SAMPLE ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS							ORGANICS						TCLP D-LIST					METALS			OTHER									RETURN / LAB ID
					WTPH-HCID	BTEX/WTPH-G	BTEX	WTPH-G	WTPH-D Ext.	TPH	F.O.G. 413.1/413.2	8260 VOA	8260 CHLOR SOLVENTS	8270 SEMI-VOA	PAH/PNA-8270	8080 ORG. CHLOR PEST.	8082 PCB	TCLP METALS (8)	TCLP-VOA	TCLP 8270 SEMI-VOA	TCLP PEST.	TCLP HERB.	TOTAL METALS ICP/DCP	TOTAL METALS GFAA	TOTAL LEAD	pH 9040/9045	TOX 9020/9076	TOC 9060/PSEP	FLASH POINT	SOLIDS (SPECIFY)				NORMAL / RUSH	
S25-42899	4/28		Soil						X																										
S26-42899	↓		↓						↓																										
S27-42899	↓		↓						↓																										
S28-42899	↓		↓						↓																										
S29-42899	↓		↓						↓																										

RETURN: DISPOSE (circled) — Fee applies

SPECIAL INSTRUCTIONS/COMMENTS:

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	[signature]	Fritz Carmine	CETI	4-28-99	4:50
RECEIVED BY	D. Triska	D. Triska	Spectra	4-28-99	4:50
RELINQUISHED BY					
RECEIVED BY					

Payment Terms: Net 30 days. Past due accounts subject to 18% per annum interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other associated costs of collection regardless of whether suit is filed.

CHAIN OF CUSTODY

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838

CLIENT: CETI
PROJECT: Metal Marine
CONTACT: Steve Spencer
PHONE: 627 - 3347
PURCHASE ORDER #:

RETURN: DISPOSE (circled) — Fee applies

SAMPLE ID	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS: WTPH-HCID	BTEX/WTPH-G	BTEX	WTPH-G	WTPH-D (ext.)	TPH	F.O.G. 413.1/413.2	ORGANICS: 8260 VOA	8260 CHLOR SOLVENTS	8270 SEMI-VOA	PAH/PNA-8270	8080 ORG. CHLOR PEST.	8082 PCB	TCLP D-LIST: TCLP METALS (8)	TCLP-VOA	TCLP 8270 SEMI-VOA	TCLP PEST.	TCLP HERB.	METALS: TOTAL METALS ICP/DCP	TOTAL METALS GFAA	TOTAL LEAD	OTHER: pH 9040/9045	TOX 9020/9076	TOC 9060/PSEP	FLASH POINT	SOLIDS (SPECIFY)					NORMAL / RUSH	LAB ID
S30-43099	4.30.99	—	soil	1					X																											
S31-43099	↓		↓	↓					↓																											
S32-43099	↓		↓	↓					↓																											
S33-43099	↓		↓	↓					↓																											
S34-43099	↓		↓	↓					↓																											
S35-43099	↓		↓	↓					↓																											
S36-43099	↓		↓	↓					↓																											
S37-43099	↓		↓	↓					↓																											
S38-43099	↓		↓	↓					↓																											

SPECIAL INSTRUCTIONS/COMMENTS:

Needs Chromatograms

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	[signature]	Fritz Carmine	CETI	4.30.99	12:27
RECEIVED BY	Marie Holt	MARIE HOLT	Spectra	4-30-99	12:3
RELINQUISHED BY					
RECEIVED BY					

Payment Terms: Net 30 days. Past due accounts subject to 18% per annum interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other associated costs of collection regardless of whether suit is filed.

Hydro Slick #FR-200
MATERIAL SAFETY DATA SHEET

MANUFACTURER: G.W. Smith & Sons
1700 Spaulding Road
Dayton, OH 45432

INFORMATION PHONE: 513-253-5114
EMERGENCY PHONE: Same

HMIS INFORMATION: HEALTH: FLAMMABILITY: REACTIVE: PROTECTION:

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Hydro Slick #FR-200
PRODUCT NUMBER:
PREPARED BY: Michael "V" Curtiss
DATE CREATED: 1/15/97
LAST REVISION: 1/5/99
SYNONYMS:

DOT CLASS: Not Regulated by DOT
HAZARD CLASS: N/A
UN NUMBER: N/A **PG:** N/A
GUIDE NUMBER: N/A
SHIPPING NAME:

SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	CAS	OSHA PEL	ACGIH TLV	Weight %
Diethylene glycol	111-46-6			<50
TS Additives	Trade Secret	N/E	N/E	<5
TS Polyalkylene Glycol	Trade Secret	N/E	N/E	<15
Water	7732-18-5			<45

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 223 F
VAPOR PRESSURE: @ 20 C = 13.2 mmHg. @ 20 C
EVAPORATION RATE: butly acetate = 1) 0.92

SPECIFIC GRAVITY: 1.086 @ 20 C
MELTING POINT: N/A
VAPOR DENSITY: (air=1) 1.3
POUNDS PER GALLON: N/A

SOLUBILITY IN WATER:
100%

APPEARANCE AND ODOR:
Red liquid, mild musty odor

SECTION IV - FIRE/EXPLOSION

FLASH POINT: None **ESTIMATED EXPLOSIVE LIMIT RANGE** **LEL:** 0.00% **UEL:** 0.00%

FLASH POINT METHOD USED: N/A

EXTINGUISHING MEDIA:
Non-Flammable (Aqueous solution): After water evaporates, remaining material will burn. Use alcohol-type or all-purpose type foam applied by manufacture's recommended technique for large fires. Use carbon dioxide or dry chemical media for small fires.

SPECIAL FIRE-FIGHTING PROCEDURES:
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
During a fire , oxides of nitrogen may be produced.

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:
WARNING! Do not mix this product with nitrites or nitrosating agents, nitrosamines may be formed. Nitrosamines may cause cancer.

INCOMPATIBILITY:
Normally unreactive; however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:
Combustion may produce oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:
N/A

SECTION VI - HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS

EYE CONTACT: Can cause severe eye irritation

INHALATION: Short-term adverse health effects are not expected from exposure to vapor generated at ambient temperature. Aerosol or vapor formed by heating the material may cause nausea and headache.

INGESTION: Moderately high toxicity. May cause pain or discomfort in the abdomen, pain in the lumbar region, nausea, vomiting, diarrhea, dizziness, drowsiness, decreased urine production, malaise, and loss of consciousness. Severe kidney damage may occur which can be fatal if not properly and adequately treated.

SKIN CONTACT: Prolonged exposure may cause skin irritation.

SIGNS AND SYMPTOMS OF EXPOSURE:

Overexposure to vapor, aerosol or mist generated at high temperature may result in eye and respiratory tract irritation, dizziness, nausea and the inhalation of harmful amounts of material. Short-term repeated ingestion of diethylene glycol may produce renal failure. Overexposure to vapor generated at high temperature may result in eye and respiratory tract irritation, dizziness, nausea and the inhalationo f harmful amounts of material.

AGGRAVATED MEDICAL CONDITIONS:

May irritate pre existing respiratory and dermal conditions.

SUPPLEMENTAL HEALTH INFORMATION:

N/A

EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

INHALATION: Remove to fresh air.

INGESTION: If swallowed, induce vomitting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SKIN CONTACT: Wash affected area with soap and water. If irritation persists, get medical attention.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
Wear suitable protective equipment, especially eye protection. Small Spills: could be flushed with large amounts of water. Large Spills: should be collected for disposal.

WASTE DISPOSAL METHOD:
Dispose of residual product in accordance with state and federal regulations

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

OTHER PRECAUTIONS
N/A

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type):
No respiratory protection is required when handling small quantities of this product.

VENTILATION:
Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination

PROTECTIVE GLOVES:
Polyvinyl Chloride coated

EYE PROTECTION:
Safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Always use this product in the vacinity of an eyewash station and a safety shower.

WORK/HYGIENIC PRACTICES:
Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

SECTION IX - ADDITIONAL INFORMATION

OTHER ADDITIONAL INFORMATION:
No information available at this time.

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

Die Slick No. 390
MATERIAL SAFETY DATA SHEET

MANUFACTURER: G.W. Smith & Sons
1700 Spaulding Road
Dayton, OH 45432

INFORMATION PHONE: 513-253-5114
EMERGENCY PHONE: Same

HMIS INFORMATION: **HEALTH:** **FLAMMABILITY:** **REACTIVE:** **PROTECTION:**

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Die Slick No. 390
PRODUCT NUMBER:
PREPARED BY: Chad Lynn
DATE CREATED: 4/24/96
LAST REVISION:
SYNONYMS:

DOT CLASS: Not Regulated by DOT
HAZARD CLASS: N/A
UN NUMBER: N/A **PG:** N/A
GUIDE NUMBER: N/A
SHIPPING NAME:

SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	CAS	OSHA PEL	ACGIH TLV	Weight %
Ethanol	Mixture			1

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 212 F
VAPOR PRESSURE: = Water mmHg. @ 20 C
EVAPORATION RATE: 1

SPECIFIC GRAVITY: 1
MELTING POINT: N/A
VAPOR DENSITY: = Water
POUNDS PER GALLON: N/A

SOLUBILITY IN WATER:
Dispersible

APPEARANCE AND ODOR:
Off-White Liquid. Bland Odor

SECTION IV - FIRE/EXPLOSION

FLASH POINT: None **ESTIMATED EXPLOSIVE LIMIT RANGE** **LEL:** 0.00% **UEL:** 0.00%

FLASH POINT METHOD USED: N/A

EXTINGUISHING MEDIA:
Use NFPA Class B extinguishers.(Carbon dioxide, dry chemical, or foam)

SPECIAL FIRE-FIGHTING PROCEDURES:
N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS:
If water is evaporated, residue has a flash point of over 500 F

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:
N/A

INCOMPATIBILITY:
Anything incompatable with water.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:
Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:
N/A

SECTION VI - HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS

EYE CONTACT: May cause slight irritation

INHALATION: May cause mild respiratory irritation

INGESTION: No hazard in normal industrial use.

SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SIGNS AND SYMPTOMS OF EXPOSURE:
Those items listed under Health Effects.

AGGRAVATED MEDICAL CONDITIONS:
N/A

SUPPLEMENTAL HEALTH INFORMATION:
N/A

EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

INHALATION: Remove to fresh air.

INGESTION: Do not induce vomiting. Give affected person plenty of liquid. Seek medical attention immediatelly.

SKIN CONTACT: Immediately wash skin with plenty of soap

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
Scoop back into container and/or soak up in absorbent materials.

WASTE DISPOSAL METHOD:
Dispose of residual product in accordance with state and federal regulations

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Avoid exposure to mists and vapors. Keep from freezing.

OTHER PRECAUTIONS
Keep container closed when not in use and away from high heat.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type):
No respiratory protection is required when handling small quantities of this product.

VENTILATION:
Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination

PROTECTIVE GLOVES:
Impervious gloves are reccomended.

EYE PROTECTION:
Safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
N/A

WORK/HYGIENIC PRACTICES:
Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

SECTION IX - ADDITIONAL INFORMATION

OTHER ADDITIONAL INFORMATION:
No information available at this time.

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

Way Oil Vistac ISO 68
MATERIAL SAFETY DATA SHEET

MANUFACTURER: Cheveron, Associated Petrtoleum
2320 Milwaukee Way
Tacoma, WA 98421

INFORMATION PHONE: 800-457-2022
EMERGENCY PHONE:

HMIS INFORMATION: HEALTH: 0 FLAMMABILITY: 1 REACTIVE: 0 PROTECTION:

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Way Oil Vistac ISO 68
PRODUCT NUMBER:
PREPARED BY: Chad Lynn
DATE CREATED: 3/28/96
LAST REVISION:
SYNONYMS:

DOT CLASS: Not Regulated by DOT
HAZARD CLASS: N/A
UN NUMBER: N/A **PG:** N/A
GUIDE NUMBER: N/A
SHIPPING NAME:

SECTION II - HAZARDOUS INGREDIENTS

Chemical Name	CAS	OSHA PEL	ACGIH TLV	Weight %
Lubricating Base Oil	64742 Series			90

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 0
VAPOR PRESSURE: N/A mmHg. @ 20 C
EVAPORATION RATE: N/A

SPECIFIC GRAVITY: 0.9
MELTING POINT: N/A
VAPOR DENSITY: N/A
POUNDS PER GALLON: N/A

SOLUBILITY IN WATER:
Not water Soluable

APPEARANCE AND ODOR:
Dark amber liquid, hydrocarbon odor

SECTION IV - FIRE/EXPLOSION

FLASH POINT: 367 F min **ESTIMATED EXPLOSIVE LIMIT RANGE** **LEL:** 0.00% **UEL:** 0.00%

FLASH POINT METHOD USED: Cleveland Open Cup

EXTINGUISHING MEDIA:
Use NFPA Class B extinguishers.(Carbon dioxide, dry chemical, or foam)

SPECIAL FIRE-FIGHTING PROCEDURES:
Do not enter any enclosed or confined space without supplied air respirator.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
N/A

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:
N/A

INCOMPATIBILITY:
Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:
Only those listed under combustion.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:
N/A

SECTION VI - HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS

EYE CONTACT: May cause slight irritation

INHALATION: The systemic toxicology of this product has not been determined;however, it should be practically non-toxic to internal organs if inhaled.

INGESTION: The systemic toxicology of this product has not been determined;however, it should be practically non-toxic to internal organs if swallowed.

SKIN CONTACT: Prolonged exposure may cause skin irritation.

SIGNS AND SYMPTOMS OF EXPOSURE:
N/A

AGGRAVATED MEDICAL CONDITIONS:
None reported

SUPPLEMENTAL HEALTH INFORMATION:
N/A

EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: Give affected person plenty of milk or water. Call your nearest poison control center immediately.

SKIN CONTACT: Immediately wash skin with plenty of soap

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
Stop source of leak or spill. clean up released material as soon as possible, observing precautions in protective equipment.

WASTE DISPOSAL METHOD:
Dispose of residual product in accordance with state and federal regulations

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Empty containers contain residual product. Do not cut, weld, grind, braze, solder or expose to heat or ignition sources.

OTHER PRECAUTIONS
N/A

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type):
Respiratory protection is not normally reqired. When this product is involved in a fire, air supplied respirator is required.

VENTILATION:
Do not use product in an enclosed environment. Use adequate ventilation.

PROTECTIVE GLOVES:
No gloves are required when handling this product.

EYE PROTECTION:
Safety glasses are adequate protection under normal use.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Always use this product in the vacinity of an eyewash station and a safety shower.

WORK/HYGIENIC PRACTICES:
Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

SECTION IX - ADDITIONAL INFORMATION

OTHER ADDITIONAL INFORMATION:
No information available at this time.

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

TABLE A

SUSPECT ASBESTOS-CONTAINING MATERIALS AND ANALYTICAL RESULTS
PROPOSED RETAIL SITE (No. 95984)
EXISTING METAL MARINE PILOT BUILDINGS
2119 MILDRED STREET WEST
FIRCREST, WASHINGTON

Sample Nos.	Material Description	Material Location	Material Condition	Friability[1]	Material Quantity[2]	Analysis Result[3]
A-1,2,3	9" x 9" Light Brown with Dark Brown and White Streaks Colored Vinyl Floor Tiles and Associated Mastic	Main Building - Front Offices, Display Room, Engineering Room, and Photocopy Room	Good	NF	1,660 SF	**Vinyl Floor Tile: 2% CH** **Mastic: 3% CH**
A-4,5,6	2' x 4' White Colored with Random Slash and Dot Pattern Acoustic Ceiling Tiles	Main Building - Front Offices, Display Room, Engineering Room, and Photocopy Room	Good	F	500 SF	ND
A-7	Brown Colored Counter-Top Covering Material and Associated Adhesive	Main Building - Main Front Office and Engineering Room	Good	NF	100 SF	Counter-Top Covering: ND Adhesive: ND
A-8	Black Colored Wall Panel Adhesive	Main Building - Display Room (Along West Wall)	Good	NF	3 SF	ND
A-9,10	Brown Colored Acoustic Wall Panels	Main Building - Photocopy Room and Display Room	Good	F	300 SF	ND
A-11,12	Paper Insulation Inside Metal Doors	Main Building - Perimeter Exit Doors	Good	F	160 SF	ND
A-13	White with Gold Speckles Colored Counter-Top Covering Material and Associated Adhesive	Main Building - Storeroom Counter Located East of Front Offices	Good	NF	25 SF	Counter-Top Covering: ND Adhesive: ND
A-14,15	Carpet Mastic	Main Building - Storeroom Located East of Front Offices	Good	NF	450 SF	ND
A-16	Blue Colored Sheet Vinyl Flooring Material and Associated Adhesive over Beige Colored Sheet Vinyl Flooring Material and Associated Adhesive	Main Building - Lunch Room and Southwest End Women's Restroom	Good	F/NF	160 SF	Blue Sheet Vinyl: ND Backing/Glue: ND Beige Sheet Vinyl: ND **Backing/Glue: 35% CH**
A-17	Blue Colored Sheet Vinyl Flooring Material and Associated Adhesive	Main Building - Southwest End Men's Restroom	Good	F/NF	50 SF	Blue Sheet Vinyl: ND Backing/Glue: ND
A-18,19	Baseboard Mastic	Main Building - Lunch Room, Southwest End Restrooms, Machine Shop (under Sinks), and Northeast End Restrooms and Locker Rooms	Good	NF	100 SF	ND
A-20	Pink-Grey Colored Counter-Top Covering Material and Associated Adhesive	Main Building - Southwest End Women's Restroom	Good	NF	12 SF	Counter-Top Covering: ND Adhesive: ND
A-21,22,23	Sheetrock with Joint Compound	Throughout Main Building Interior	Good	F	8,000 SF	Sheetrock: ND **Joint Compound: 2% CH** **Composite: <1% CH**
A-24 to A-30	Decorative Skim Coat Applied over Sheetrock Walls	Throughout Main Building Interior	Good	F	8,000 SF	ND

[1] F = Friable Building Material NF = Non-Friable Building Material
[2] SF = Square Feet LF = Linear Feet
[3] ND = No Asbestos Detected During Analysis CH = Chrysotile Asbestos Detected During Analysis

Note: Reported material quantities are estimates only. All bidding contractors are advised to confirm material quantities.

TABLE A (CONT'D)

SUSPECT ASBESTOS-CONTAINING MATERIALS AND ANALYTICAL RESULTS
PROPOSED RETAIL SITE (No. 95984)
EXISTING METAL MARINE PILOT BUILDINGS
2119 MILDRED STREET WEST
FIRCREST, WASHINGTON

Sample Nos.	Material Description	Material Location	Material Condition	Friability[1]	Material Quantity[2]	Analysis Result[3]
A-31,32	Tan with Gold Flakes Colored Targanol Flooring Material	Main Building - Compass Room	Good	NF	300 SF	ND
A-33,34	2' x 4' Off-White Colored with Large Slashes Acoustic Ceiling Tiles	Main Building - Compass Room	Good	F	150 SF	ND
A-35,36,37	Tan, Yellow, and White Colored with Mosaic Pattern Sheet Vinyl Flooring Material and Associated Backing Adhesive	Main Building - Northeast End Men's and Women's Restrooms and Locker Rooms	Good	F/NF	975 SF	Sheet Vinyl Flooring: ND **Backing/Glue: 45% CH**
A-38,39,40	2' x 4' White Colored Acoustic Ceiling Tiles	Main Building - Northeast End Men's and Women's Restrooms and Locker Rooms	Good	F	975 SF	ND
Not Sampled	Firedoor Insulation	Two Large Metal Sliding Doors Separating North End Warehouse and Electronic Assembly Area Located within the Main Building	Good	F	100 SF	**Assumed ACM**
A-41	Window Caulking	Main Building - Applied Around Perimeter Windows Located Along the Southwest End of the Building Exterior (Compass Room, Front Offices, Display Room, and Engineering Room Windows)	Good	F	20 SF	**3% CH**
A-42	HVAC Duct Sealant	Applied Around Seams in HVAC Ducts Located Outside the Main Building (Immediately North of the Compass Room)	Good	NF	35 SF	**5% CH**
A-43,44,45	Wall Coating Material	Located within the Painting Shed Interior	Good	NF	100 SF	ND

[1] F = Friable Building Material NF = Non-Friable Building Material
[2] SF = Square Feet LF = Linear Feet
[3] ND = No Asbestos Detected During Analysis CH = Chrysotile Asbestos Detected During Analysis

Note: Reported material quantities are estimates only. All bidding contractors are advised to confirm material quantities.

TABLE B

SUSPECT LEAD-BASED PAINTS AND ANALYTICAL RESULTS
PROPOSED RETAIL SITE (No. 95984)
EXISTING METAL MARINE PILOT BUILDINGS
2119 MILDRED STREET WEST
FIRCREST, WASHINGTON

Sample No.	Paint and Substrate Description	Paint Location	Paint Condition	Laboratory Analysis Limit of Detection[1]	Analysis Result[1]
L-1	Green Colored Paint Applied to Concrete Block Walls	Main Building - Front Offices, Display Room, and Engineering Room	Good	50 mg/kg	890 mg/kg
L-2	Green Colored Paint Applied to Sheetrock Walls	Throughout Main Building Interior	Good	54 mg/kg	260 mg/kg
L-3	Green Colored Paint Applied to Metal Panel Walls and Perimeter Exit Metal Doors	Throughout Main Building Interior	Good	81 mg/kg	1,100 mg/kg
L-4	Light Yellow Colored Paint Applied to Sheetrock Walls	Main Building - Storeroom and Northeast End Men's and Women's Restrooms and Locker Rooms	Good	53 mg/kg	280 mg/kg
L-5	White Colored Paint Applied to Sheetrock Walls	Main Building - Lunch Rm. and Southwest End Men's and Women's Restrooms	Good	61 mg/kg	270 mg/kg
L-6	White Colored Paint Applied to Concrete Block Walls	Main Building - Compass Room	Good	50 mg/kg	1,000 mg/kg
L-7	Dark Red Colored Primer Applied to Structural Steel	Throughout Main Building Interior	Good	49 mg/kg	4,400 mg/kg
L-8	Tan Colored Paint Applied to Metal Siding	Throughout Main Building Exterior	Good/Fair	53 mg/kg	1,300 mg/kg
L-9	Dark Red Colored Paint Applied to Metal Rain Gutters, Drainage Spouts, and Trim	Throughout Main Building Exterior	Good	330 mg/kg	< 330 mg/kg
L-10	Tan Colored Paint Applied to Metal Siding	Throughout Spray Painting Shed Exterior	Good	51 mg/kg	1,200 mg/kg
L-11	Green Colored Paint Applied to Structural Steel	Throughout Spray Painting Shed Interior	Good	50 mg/kg	55 mg/kg
L-12	Light Grey Colored Paint Applied to Metal Wall Panels	Throughout Spray Painting Shed Interior	Good	530 mg/kg	**5,100 mg/kg**

[1] **mg/kg = Milligrams per Kilogram**
Bold = Identified Lead-Based Paint

WISHA REGIONAL DIRECTIVE
WISHA Services
Department of Labor and Industries

23.30 ASBESTOS-CONTAINING JOINT COMPOUND IN WALLBOARD SYSTEMS

Date Issued: December 28, 2000

I. Background

Joint compound used on wallboard systems often contains asbestos added during the mixing process to improve the working texture of the material. The asbestos in the joint compound is typically much less than 5 percent by weight and the joint compound makes up a minor fraction of the material in the wallboard system. Where work with the wallboard system does not involve sanding, grinding or abrading the wall surface, joint compound will generally remain intact on the surface of the wallboard. The presence of joint compound has not been found to represent a greater hazard of asbestos exposure than treating the wallboard system as a homogenous material. It is important to implement prompt clean-up procedures and avoid pulverizing debris generated during the work.

Because of the circumstances presented by the use of asbestos in such joint compounds, questions arise relating to the application of the requirements of the asbestos standards adopted by the Department of Labor and Industries (L&I) under the authority of the Washington Industrial Safety and Health Act (WISHA), RCW 49.17 and the Washington Asbestos Act, RCW 49.26.

II. Scope and Application

This WISHA Regional Directive (WRD) provides guidance to WISHA enforcement and consultation staff whenever they must address issues concerning employee exposure to hazards involving asbestos-containing joint compound in wallboard systems. This document does not address materials sprayed or applied with a trowel across the full surface of the wall (such surfacing materials are covered under the Class I work provisions of the asbestos standard, found in WAC 296-62-07712).

This WRD supersedes all previous guidance on this subject, both formal and informal.

– policy continues on reverse of page –

III. Interpretive Guidance

A. How do the building survey requirements of WAC 296-62-07721 apply to joint compound?

1. Sampling for joint compound. Owners and employers can generally rely upon full-depth samples of wallboard systems containing joint compound collected during building inspections.

For general demolition and other work dealing with the wallboard system as a whole, building surveys using samples representing the full depth of wallboard material meet the good faith survey requirements. Where sample results identify trace or less than one percent asbestos for the wallboard system, some basic requirements of the asbestos standard will apply but the work will not be considered an "asbestos abatement project" under the definitions of the standard.

However, full-depth samples are not sufficient for wallboard systems where surfacing materials are present or where work will specifically disturb joint compound.

Building inspectors must examine wall systems in sufficient detail to identify extensive patching or application of surfacing layers on walls (as per the EPA AHERA inspection protocols for identification of surfacing materials in 40 CFR 763 Part E). These applications are considered to be "surfacing materials" under the standard, although similar plaster products may be used for joint compound. Surfacing materials have been associated with extensive asbestos exposure and have more stringent handling requirements than most other materials (see the OSHA preamble to the 1994 rulemaking for additional discussion).

Where work practices will selectively disturb joint compound, a full depth sample may not represent the workplace hazard. For example, sanding or scraping a wall may specifically disturb the joint compound and create dust and debris composed primarily of joint compound. Building inspectors must assess the work to be conducted and sample the materials representative of the hazard presented by the work. This may be accomplished using individual samples of different layers or having layers within samples analyzed separately. WISHA enforcement staff may elect to collect samples of dust or debris from the workplace or sample specific materials to make an assessment of the hazard represented by these materials. The specific work activity associated with the sample must be documented.

— policy continues on next page —

2. Re-analysis of materials. A full-depth sample result may substitute for layered results in situations where full-depth sampling is determined appropriate by an accredited building inspector. However, where sampling of joint compound has detected asbestos, the overall wallboard materials must not be reported as asbestos free.

Previous sampling may have been conducted for significantly different projects and specifically focused on joint compound (for example, samples assessing a prior painting project where sanding of the wall surface was planned). It is also common practice for laboratories to report layer by layer results for quality control reasons, whether or not this analysis is requested. In either case, it is improper to ignore the known presence of asbestos, but additional information may be collected and used to characterize the overall hazard due to asbestos in the current work.

An accredited building inspector must conduct any reassessment of wallboard systems. The reassessment must be conducted based on objective information collected during inspection of the wallboard system by an inspector or laboratory analysis of samples collected in accordance with EPA protocols. Pertinent objective information includes field documentation of the layers present in the samples and the relative quantities of materials represented by the samples. The level of proof should be equivalent to that for rebuttal of PACM designation and EPA inspection and analysis protocols must be followed. If resampling is conducted with full depth analysis and no asbestos is detected, the wallboard system must still be reported as containing trace or less than one percent asbestos based on the initial sampling.

B. *What are the work practice requirements for handling wallboard materials under WAC 296-62-07712 in the asbestos standard?*

1. Wallboard systems with greater than one percent asbestos content. Where asbestos-containing joint compound has been identified and the overall asbestos content of the wallboard system is greater than one percent, then work that disturbs the wall is Class II asbestos work. L&I considers the work an "asbestos project" or "asbestos abatement project" if the wall area involved is greater than one or three square feet, respectively. This also applies to any asbestos containing surfacing material.

Such work falls under the full requirements of the asbestos standard, including all Class II work practice and certification requirements. "Asbestos project" and "asbestos abatement project" are specifically defined terms in Washington State law on asbestos related to the certification requirements for contractors and workers. These terms apply to work where there is a possible exposure to asbestos above the permissible exposure limit.

– policy continues on reverse of page –

NVL LABS & HAZARDOUS MATERIALS SERVICES

April 18, 2005

Ted Sykes
Kleinfelder
2405 - 140th Avenue NE
Suite A-101
Bellevue, WA 98005

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2505122.00

Dear Mr. Sykes,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

NVLAP
Lab Code: 102063

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY
AIHA - IH
Lab Code: 101861

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Munaf Khan, Laboratory Director

Enc.: Sample Results

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Lab ID : 25031014 Client Sample #: A-1
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Tan tile

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Fine particles,Vinyl/binder	None Detected	ND	**Chrysotile**	**2%**

Layer 2 of 2 Description: Black asphaltic mastic

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Asphalt/binder	None Detected	ND	**Chrysotile**	**3%**

Lab ID : 25031015 Client Sample #: A-2 **SAMPLE NOT ANALYZED**

Lab ID : 25031016 Client Sample #: A-3 **SAMPLE NOT ANALYZED**

Lab ID : 25031017 Client Sample #: A-4
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Binder/Filler,Glass beads,Paint	Cellulose	40%	**None Detected**	**ND**
	Glass fibers	30%		

Lab ID : 25031018 Client Sample #: A-5
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Binder/Filler,Glass beads,Paint	Cellulose	40%	**None Detected**	**ND**
	Glass fibers	30%		

Lab ID : 25031019 Client Sample #: A-6
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Binder/Filler,Paint	Cellulose	40%	**None Detected**	**ND**
	Glass fibers	20%		

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005

Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Lab ID : 25031020 Client Sample #: A-7
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Brown flat hard compressed fibrous material with tan surface

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	Cellulose 90%	None Detected ND

Layer 2 of 2 Description: Clear soft adhesive

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Adhesive/binder	None Detected ND	None Detected ND

Lab ID : 25031021 Client Sample #: A-8
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Black soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/binder	None Detected ND	None Detected ND

Lab ID : 25031022 Client Sample #: A-9
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler,Perlite,Paint	Cellulose 40%	None Detected ND
	Glass fibers 30%	

Lab ID : 25031023 Client Sample #: A-10
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler,Perlite,Paint	Cellulose 40%	None Detected ND
	Glass fibers 30%	

Lab ID : 25031024 Client Sample #: A-11
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Tan fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	Cellulose 97%	None Detected ND

Lab ID : 25031025 Client Sample #: A-12
Location: 2119 Mildred Street West Fircrest, WA

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Layer 1 of 1 **Description:** Tan fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Cellulose 97%	**None Detected ND**

Lab ID : 25031026 Client Sample #: A-13
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 **Description:** Tan flat hard compressed fibrous material with white surface

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Cellulose 90%	**None Detected ND**

Layer 2 of 2 **Description:** Clear soft adhesive

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/binder	None Detected ND	**None Detected ND**

Lab ID : 25031027 Client Sample #: A-14
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 **Description:** Gray brittle mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder,Synthetic foam	None Detected ND	**None Detected ND**

Lab ID : 25031028 Client Sample #: A-15
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 **Description:** Gray brittle mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder,Synthetic foam	None Detected ND	**None Detected ND**

Lab ID : 25031029 Client Sample #: A-16
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 4 **Description:** Blue tile

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles,Vinyl/binder	None Detected ND	**None Detected ND**

Layer 2 of 4 **Description:** Off-white soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder	None Detected ND	**None Detected ND**

Layer 3 of 4 **Description:** Beige sheet vinyl

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles,Vinyl/binder,Synthetic foam	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Layer 4 of 4 Description: Gray fibrous backing with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler,Mastic/binder	Cellulose 25%	**Chrysotile 35%**

Lab ID : 25031030 Client Sample #: A-17
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Blue tile

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles,Vinyl/binder	None Detected ND	**None Detected ND**

Layer 2 of 2 Description: Off-white soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder	None Detected ND	**None Detected ND**

Lab ID : 25031031 Client Sample #: A-18
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Off-white soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder	None Detected ND	**None Detected ND**

Layer 2 of 2 Description: Brown brittle mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder	Talc fibers 2%	**None Detected ND**

Lab ID : 25031032 Client Sample #: A-19
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Off-white soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder	None Detected ND	**None Detected ND**

Layer 2 of 2 Description: Brown brittle mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/binder	Talc fibers 2%	**None Detected ND**

Lab ID : 25031033 Client Sample #: A-20
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Brown flat hard compressed fibrous material with tan surface

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Cellulose 90%	**None Detected ND**

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Layer 2 of 2 Description: Clear soft adhesive

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/binder	None Detected ND	**None Detected ND**

Lab ID : 25031034 Client Sample #: A-21
Location: 2119 Mildred Street West Fircrest, WA
Comments: Composite result for whole sample is less than 1% asbestos

Layer 1 of 3 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles,Binder/Filler,Paint	None Detected ND	**Chrysotile 2%**

Layer 2 of 3 Description: Off-white compacted powdery matrial with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles,Binder/Filler	Cellulose 45%	**Chrysotile 2%**

Layer 3 of 3 Description: Off-white chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles,Gypsum/binder	Cellulose 12%	**None Detected ND**

Lab ID : 25031035 Client Sample #: A-22 **SAMPLE NOT ANALYZED**

Lab ID : 25031036 Client Sample #: A-23 **SAMPLE NOT ANALYZED**

Lab ID : 25031037 Client Sample #: A-24
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 10%	**None Detected ND**

Lab ID : 25031038 Client Sample #: A-25
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 12%	**None Detected ND**

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Lab ID : 25031039 Client Sample #: A-26
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 5%	**None Detected ND**

Lab ID : 25031040 Client Sample #: A-27
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 5%	**None Detected ND**

Lab ID : 25031041 Client Sample #: A-28
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 5%	**None Detected ND**

Lab ID : 25031042 Client Sample #: A-29
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 5%	**None Detected ND**

Lab ID : 25031043 Client Sample #: A-30
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Light gray sandy material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Sand,Paint	Cellulose 7%	**None Detected ND**

Lab ID : 25031044 Client Sample #: A-31
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Tan vinyl

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

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Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Layer 2 of 2 Description: Gray cementitious material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Cement/binder,Mineral grains	None Detected ND	**None Detected ND**

Lab ID : 25031045 Client Sample #: A-32
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Tan vinyl

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/binder	None Detected ND	**None Detected ND**

Layer 2 of 2 Description: Gray cementitious material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Cement/binder,Mineral grains	None Detected ND	**None Detected ND**

Lab ID : 25031046 Client Sample #: A-33
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Tan compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler,Paint	Cellulose 90%	**None Detected ND**

Lab ID : 25031047 Client Sample #: A-34
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Tan compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler,Paint	Cellulose 90%	**None Detected ND**

Lab ID : 25031048 Client Sample #: A-35
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 2 Description: Tan sheet vinyl with rock pattern

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles,Vinyl/binder	None Detected ND	**None Detected ND**

Layer 2 of 2 Description: Light gray fibrous backing with mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler,Mastic/binder	Cellulose 15%	**Chrysotile 45%**

Lab ID : 25031049 Client Sample #: A-36 **SAMPLE NOT ANALYZED**

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Lab ID : 25031050 Client Sample #: A-37 **SAMPLE NOT ANALYZED**

Lab ID : 25031051 Client Sample #: A-38
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Tan fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint	Glass fibers 90%	**None Detected ND**

Lab ID : 25031052 Client Sample #: A-39
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Tan fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint	Glass fibers 90%	**None Detected ND**

Lab ID : 25031053 Client Sample #: A-40
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Tan fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint	Glass fibers 90%	**None Detected ND**

Lab ID : 25031054 Client Sample #: A-41
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Gray putty material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles,Binder/Filler,Paint	None Detected ND	**Chrysotile 3%**

Lab ID : 25031055 Client Sample #: A-42
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 Description: Black asphaltic material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/binder,Paint	Cellulose 3%	**Chrysotile 5%**

Lab ID : 25031056 Client Sample #: A-43
Location: 2119 Mildred Street West Fircrest, WA

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West Fircrest, WA

Batch #: 2505122.00
Client Project #:n/a
Samples Received: 45
Samples Analyzed: 39
Method: EPA/600R-93/116

Layer 1 of 1 **Description:** Gray and white paint texture

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Glitter,Paint	None Detected	ND	**None Detected**	**ND**

Lab ID : 25031057 **Client Sample #: A-44**
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 **Description:** Gray and white paint texture

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Glitter,Paint	None Detected	ND	**None Detected**	**ND**

Lab ID : 25031058 **Client Sample #: A-45**
Location: 2119 Mildred Street West Fircrest, WA

Layer 1 of 1 **Description:** Gray and white paint texture

Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**	
Glitter,Paint	None Detected	ND	**None Detected**	**ND**

Sampled by: Client
Analyzed by: Lyudmila Manzar **Date Analyzed:** 04/18/2005
Reviewed by: Munaf Khan **Date Issued:** 04/18/2005
Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Tel: 206.547.0100 Emerg. Pager: 206.344.1878
1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2505122.00

Client: Kleinfelder
Street: 2405 - 140th Avenue NE, Suite A-101, Bellevue, WA 98005
Project Manager: Ted Sykes
Project Location: 2119 MILDRED STREET WEST, FIRCREST, WASHINGTON

NVL Batch Number:
Client Job Number:
Total Samples: 45
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☐ 2 Days ☒ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address:

Phone: (425) 562-4200 Fax: (425) 562-4201 Cell: (425) 864-6710

☐ Asbestos Air	☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals ☐ TCLP	☐ ppm (AAS) ☐ ppb (GFAA)	☐ Air Filter ☐ Drinking water ☐ Dust/wipe ☐ Soil	☐ Paint Chips ☐ Paint Chips (Area) ☐ Waste Water ☐ Other	☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr)	☐ All 8 ☐ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis	☐ Fiberglass ☐ Nuisance Dust ☐ Rotometer Calibration ☐ Other (Specify) ☐ Silica ☐ Respirable Dust ☐ Mold/Fungus

Condition of Package: ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		A-1	Vinyl Floor Tile and Mastic	
2		* A-2	" " " " "	
3		A-3	" " " " "	
4				
5		A-4	Ceiling Tile	
6		* A-5	" "	
7		A-6	" "	
8				
9		A-7	Counter-Top Covering Material and Adhesive	
10				
11		A-8	Wall Adhesive	
12				
13		A-9	Wall Panel	
14		* A-10	" "	
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Ted Sykes	[signature]	Kleinfelder	4/11/05	
Relinquished by	Ted Sykes	[signature]	Kleinfelder	4/11/05	
Received by	Nicole Barnes	Nicole Barnes	NVL	4.11.05	4:30pm
Analyzed by	L. Manzak	L. Manzak	NVL	04.18.05	14:25
Results Called by	↓			↓	↓
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

* STOP AT FIRST POSITIVE IN EACH GROUP OF SAMPLES.

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CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2505122.00

Client Kleinfelder
Street 2405 - 140th Avenue NE
Suite A-101
Bellevue, WA 98005
Project Manager Ted Sykes
Project Location 2119 MILDRED STREET WEST
PIERCREST, WASHINGTON

NVL Batch Number
Client Job Number
Total Samples 45
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☐ 2 Days ☒ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address

Phone: (425) 562-4200 **Fax:** (425) 562-4201 **Cell:** (425) 864-6710

☐ **Asbestos Air** ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other

☒ **Asbestos Bulk** ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals ☐ TCLP	☐ ppm (AAS) ☐ ppb (GFAA)	☐ Air Filter ☐ Drinking water ☐ Dust/wipe ☐ Soil	☐ Paint Chips ☐ Paint Chips (Area) ☐ Waste Water ☐ Other	☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr)	☐ All 8 ☐ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ **Other Types of Analysis** ☐ Fiberglass ☐ Nuisance Dust ☐ Rotometer Calibration ☐ Other (Specify) ☐ Silica ☐ Respirable Dust ☐ Mold/Fungus

Condition of Package: ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		* A-11	PAPER DOOR INSULATION	
2		* A-12	" " "	
3				
4		A-13	COUNTER-TOP COVERING MATERIAL AND ADHESIVE	
5				
6		* A-14	CARPET MASTIC	
7		* A-15	" "	
8				
9		* A-16	SHEET VINYL FLOORING MATERIAL AND ADHESIVE	
10		* A-17	" " " " " "	
11				
12		* A-18	BASEBOARD MASTIC	
13		* A-19	" "	
14				
15		A-20	COUNTER-TOP COVERING MATERIAL AND ADHESIVE	

	Print Below	Sign Below	Company	Date	Time
Sampled by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Relinquished by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Received by	Nicole Barnes	Nicole Barnes	NVL	4.11.05	4:30pm
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

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CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2505122.00

Client: Kleinfelder
Street: 2405 - 140th Avenue NE, Suite A-101, Bellevue, WA 98005
Project Manager: Ted Sykes
Project Location: 2119 MILDRED STREET WEST, FIRCREST, WASHINGTON
Phone: (425) 562-4200 Fax: (425) 562-4201

NVL Batch Number:
Client Job Number:
Total Samples: 45
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☐ 2 Days ☒ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address:
Cell: (425) 864-6710

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other

☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals ☐ TCLP	☐ ppm (AAS) ☐ ppb (GFAA)	☐ Air Filter ☐ Drinking water ☐ Dust/wipe ☐ Soil	☐ Paint Chips ☐ Paint Chips (Area) ☐ Waste Water ☐ Other	☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr)	☐ All 8 ☐ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis: ☐ Fiberglass ☐ Nuisance Dust ☐ Rotometer Calibration ☐ Other (Specify) ☐ Silica ☐ Respirable Dust ☐ Mold/Fungus

Condition of Package: ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		A-21	SHEETROCK WITH JOINT COMPOUND	
2		* A-22	" " " "	
3		A-23	" " " "	
4				
5		A-24	SKIM COAT	
6		A-25	" "	
7		A-26	" "	
8		* A-27	" "	
9		A-28	" "	
10		A-29	" "	
11		A-30	" "	
12				
13		* A-31	TARGANOL FLOORING MATERIAL	
14		A-32	" " "	
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Relinquished by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Received by	Nicole Burnes	Nicole Burnes	NVL	4.11.05	4:30PM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

* STOP AT FIRST POSITIVE IN EACH GROUP OF SAMPLES.

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CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2505122.00

Client: Kleinfelder
Street: 2405 - 140th Avenue NE, Suite A-101, Bellevue, WA 98005
Project Manager: Ted Sykes
Project Location: 2119 MILDRED STREET WEST, FIRGREST, WASHINGTON
Phone: (425) 562-4200 Fax: (425) 562-4201

NVL Batch Number:
Client Job Number:
Total Samples: 45
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☒ 4 Days ☐ 2-Hrs ☐ 2 Days ☒ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address:
Cell: (425) 864-6710

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals ☐ TCLP	☐ ppm (AAS) ☐ ppb (GFAA)	☐ Air Filter ☐ Drinking water ☐ Dust/wipe ☐ Soil	☐ Paint Chips ☐ Paint Chips (Area) ☐ Waste Water ☐ Other	☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr)	☐ All 8 ☐ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis: ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Rotometer Calibration ☐ Mold/Fungus ☐ Other (Specify)

Condition of Package: ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		* A-33	CEILING TILE	
2		A-34	" "	
3				
4		A-35	SHEET VINYL FLOORING MATERIAL AND ADHESIVE	
5		* A-36	" " " " " "	
6		A-37	" " " " " "	
7				
8		A-38	CEILING TILE	
9		* A-39	" "	
10		A-40	" "	
11				
12		A-41	WINDOW CAULK	
13				
14		A-42	HVAC DUCT-JOINT SEALANT	
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Relinquished by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Received by	Nicole Barnes	Nicole Barnes	NVL	4.11.05	4:30PM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

* STOP AT FIRST POSITIVE IN EACH GROUP OF SAMPLES.

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CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2505122.00

Client: Kleinfelder
Street: 2405 - 140th Avenue NE, Suite A-101, Bellevue, WA 98005
Project Manager: Ted Sykes
Project Location: 2119 MILDRED STREET WEST, FIRCREST, WASHINGTON

NVL Batch Number:
Client Job Number:
Total Samples: 45
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☒ 4 Days ☐ 2-Hrs ☐ 2 Days ☒ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address:

Phone: (425) 562-4200 Fax: (425) 562-4201 Cell: (425) 864-6710

☐ Asbestos Air	☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals ☐ TCLP	☐ ppm (AAS) ☐ ppb (GFAA)	☐ Air Filter ☐ Drinking water ☐ Dust/wipe ☐ Soil	☐ Paint Chips ☐ Paint Chips (Area) ☐ Waste Water ☐ Other	☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr)	☐ All 8 ☐ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis	☐ Fiberglass ☐ Nuisance Dust ☐ Rotometer Calibration ☐ Other (Specify) ☐ Silica ☐ Respirable Dust ☐ Mold/Fungus

Condition of Package: ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		A-43	WALL COATING MATERIAL (PAINT SHED)	
2		* A-44	" " " " "	
3		A-45	" " " " "	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Relinquished by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Received by	Nicole Barnes	Nicole Barnes	NVL	4.11.05	4:30PM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

* STOP AT FIRST POSITIVE IN EACH GROUP OF SAMPLES.

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www.nvllabs.com

Analysis Report

AIHA - IH
#101861

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

Total Lead (Pb)

Client: Kleinfelder
Address: 2405 - 140th Avenue NE
Bellevue, WA 98005
Attention: Mr. Ted Sykes
Project Location: 2119 Mildred Street West, Fircrest, WA

Batch #: 2505119.00
Matrix: Paint Chips
Method: EPA 7000B
Client Project #:n/a
Samples Received: 12
Total Samples Analyzed:12

Lab ID	Client Sample #	Sample Weight	RL in mg/Kg	Results in mg/Kg	Results in percent
25030992	L-1	0.2015	50.0	890.0	0.0890
25030993	L-2	0.1840	54.0	260.0	0.0260
25030994	L-3	0.1231	81.0	1100.0	0.1100
25030995	L-4	0.1901	53.0	280.0	0.0280
25030996	L-5	0.1630	61.0	270.0	0.0270
25030997	L-6	0.1995	50.0	1000.0	0.1000
25030998	L-7	0.2024	49.0	4400.0	0.4400
25030999	L-8	0.1903	53.0	1300.0	0.1300
25031000	L-9	0.0303	330.0	< 330.0	< 0.0330
25031001	L-10	0.1964	51.0	1200.0	0.1200
25031002	L-11	0.1991	50.0	55.0	0.0055
25031003	L-12	0.0188	530.0	5100.0	0.5100

Sampled by: Client
Analyzed by: Holly Tuttle
Reviewed by: Nick Ly

Date Analyzed: 04/18/2005
Date Issued: 04/18/2005

Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise.

Bench Run No: 25-0418-7

Pg. 1 of 1

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CHAIN of CUSTODY SAMPLE LOG

BATCH ID
2505119.00

Client: Kleinfelder
Street: 2405 - 140th Avenue NE, Suite A-101, Bellevue, WA 98005
Project Manager: Ted Sykes
Project Location: 2119 MILDRED STREET WEST, FIRCREST, WASHINGTON
Phone: (425) 562-4200 Fax: (425) 562-4201

NVL Batch Number:
Client Job Number:
Total Samples: 12
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☒ 4 Days ☐ 2-Hrs ☐ 2 Days ☒ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address:
Cell: (425) 864-6710

☐ Asbestos Air	☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☒ Total Metals ☐ TCLP	☒ ppm (AAS) ☐ ppb (GFAA)	☐ Air Filter ☐ Drinking water ☐ Dust/wipe ☐ Soil	☒ Paint Chips ☐ Paint Chips (Area) ☐ Waste Water ☐ Other	☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr)	☐ All 8 ☒ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis	☐ Fiberglass ☐ Nuisance Dust ☐ Rotometer Calibration ☐ Other (Specify) ☐ Silica ☐ Respirable Dust ☐ Mold/Fungus

Condition of Package: ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		L-1	GREEN COLORED PAINT	
2		L-2	GREEN COLORED PAINT	
3		L-3	GREEN COLORED PAINT	
4		L-4	Light yellow COLORED PAINT	
5		L-5	WHITE COLORED PAINT	
6		L-6	WHITE COLORED PAINT	
7		L-7	DARK RED PRIMER	
8		L-8	TAN COLORED PAINT	
9		L-9	DARK RED COLORED PAINT	
10		L-10	TAN COLORED PAINT	
11		L-11	GREEN COLORED PAINT	
12		L-12	Light GREY COLORED PAINT	
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Relinquished by	TED SYKES	[signature]	KLEINFELDER	4/11/05	
Received by	Nicole Barnes	Nicole Barnes	NVL	4.11.05	4:30 pm
Analyzed by	[illegible]	[illegible]	NVL	4/15/05	1612
Results Called by	↓	↓	↓	↓	
Results Faxed by					1626

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

ANALYZE All PAINT CHIP SAMPLES FOR LEAD CONTENT

Photograph 1

UST Location - Facing southeast

Photograph 2

UST 1 during excavation - View to southwest

Pho

UST 1 during removal

UST 2 observed during soil sampling activities - View to south

Photograph 5

UST 2 during removal

Photograph 6

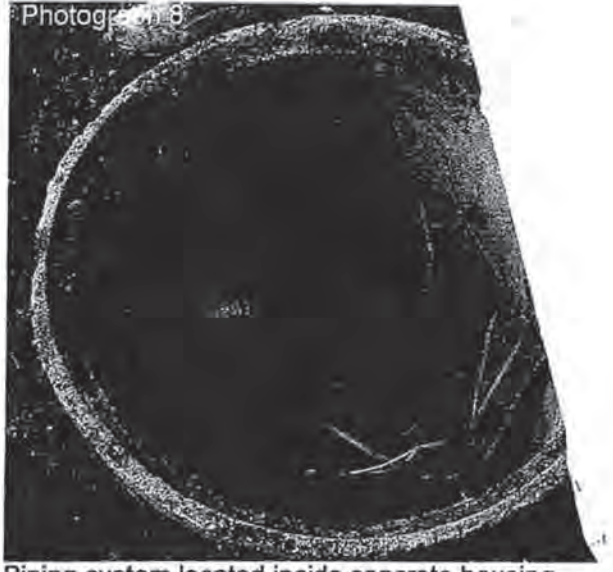
USTs1 & 2 following removal from excavation

SOUND ENVIRONMENTAL STRATEGIES	Robert & Ethyl Freeman Family, LLC UST Decommissioning Project 2119 Mildred Street West Fircrest, Washington	SES Project No.: 331-1 Date: May 24, 2002 Drawn By: SSpencer Chk By: Sspencer File ID: 331-1 Project Photos

Photograph 7

UST Excavation - View to south

Photograph 8

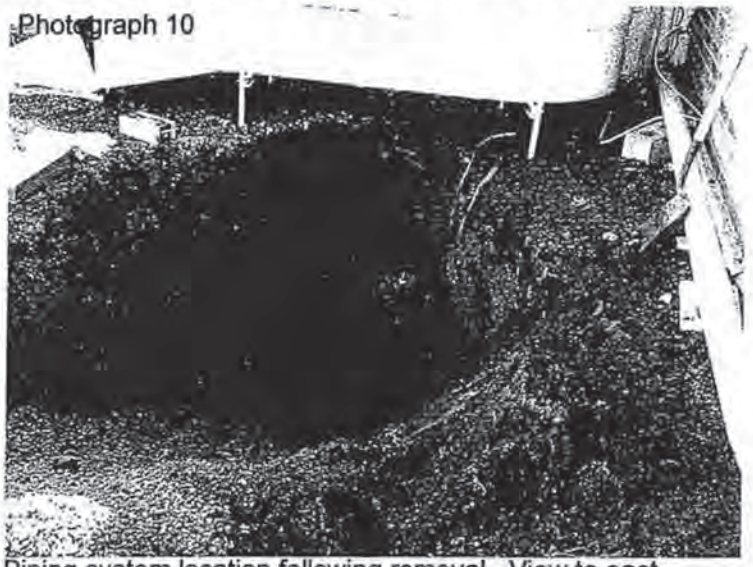


Piping system located inside concrete housing

Photograph 9

Removal of piping system housing

Photograph 10

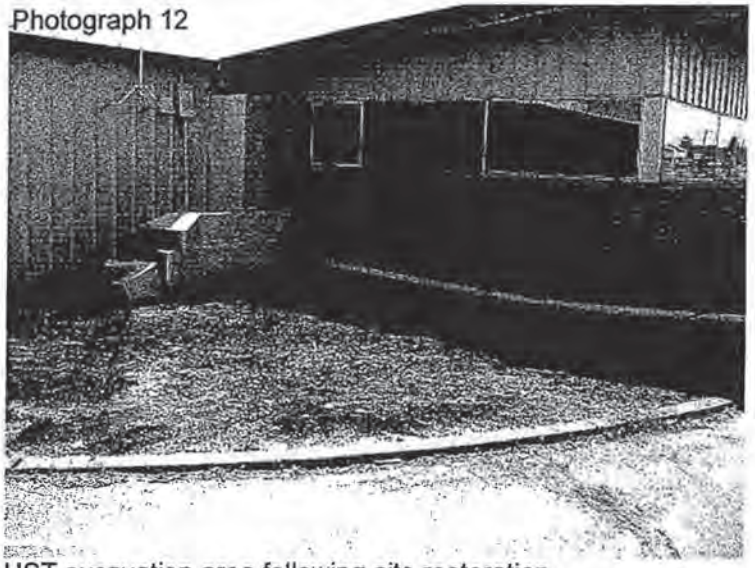


Piping system location following removal - View to east

Photograph 11

UST excavation area during site restoration - View to southeast

Photograph 12



UST excavation area following site restoration

SOUND ENVIRONMENTAL STRATEGIES	Robert & Ethyl Freeman Family, LLC UST Decommissioning Project 2119 Mildred Street West Fircrest, Washington	SES Project No.: 331-1 Date: May 24, 2002 Drawn By: SSpencer Chk By: Sspencer File ID: 331-1 Project Photos