



December 22, 1992
Sample Log 5579

Jaff Auchterlonie
Ramcon
P.O. BOX 1026
West Sacramento, CA 95691

Subject: Analytical Results for 13 Soil Samples
Identified as: Project # 476003 (Dongary Invest., Oakland)
Received: 12/17/92
Purchase Order: 6991

Dear Mr. Auchterlonie:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on December 22, 1992 and describes procedures used to analyze the samples.

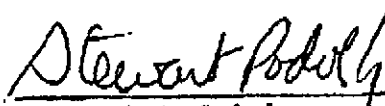
Sample(s) were received in brass sleeves that were sealed with PTFE sheets and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

- "BTEX" (EPA Method 8020/Purge-and-Trap)
- "TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
- "TPH as Diesel, Motor Oil, Jet/Kerosene" (Mod. 8015/Extraction)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:


Stewart Podolsky
Senior Chemist

Jennifer,
This information is for
the site assessment work
plan. If you have any
questions, please feel free to
call Jaff @ (916) 372-7535.

Michele



Sample Log 5579

5579-1

Sample: BH6-4'

From : Project # 476003 (Dongary Invest., Oakland)

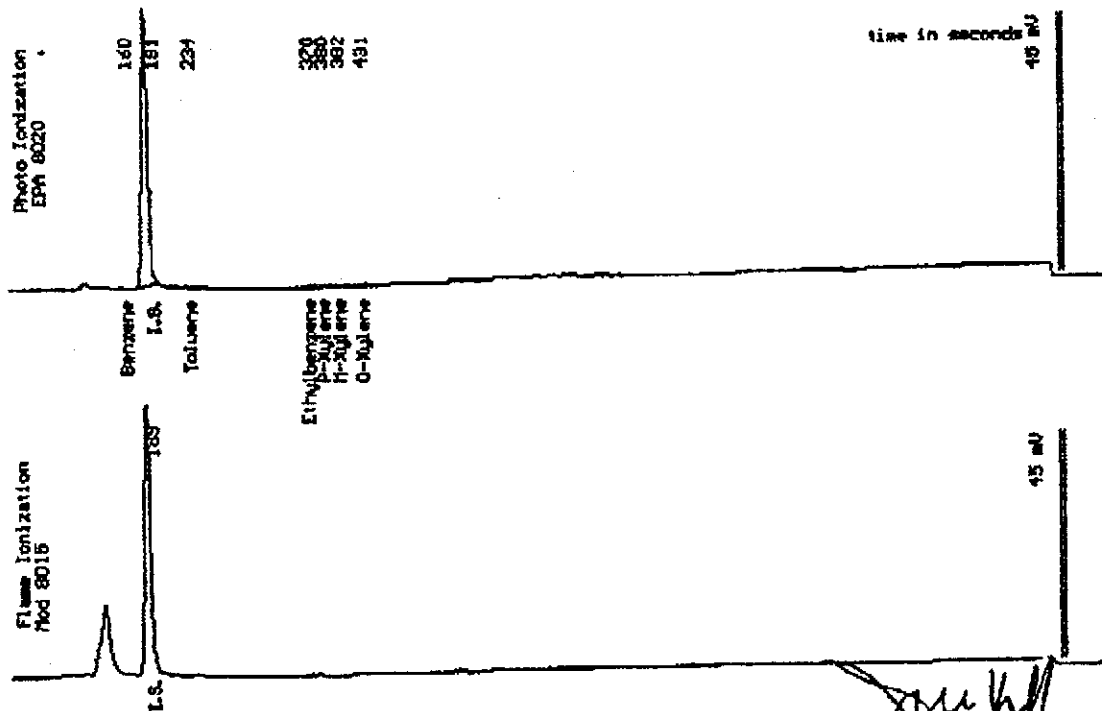
Sampled : 12/15/92

QC Batch : 4072g

Dilution : 1:1

Matrix : Soil

Parameter	(MDL) $\mu\text{g/kg}$	Measured Value $\mu\text{g/kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-92
Column : 0.32mm ID X 90m DBMEX (J&M Scientific)

Joel Kiff
Senior Chemist



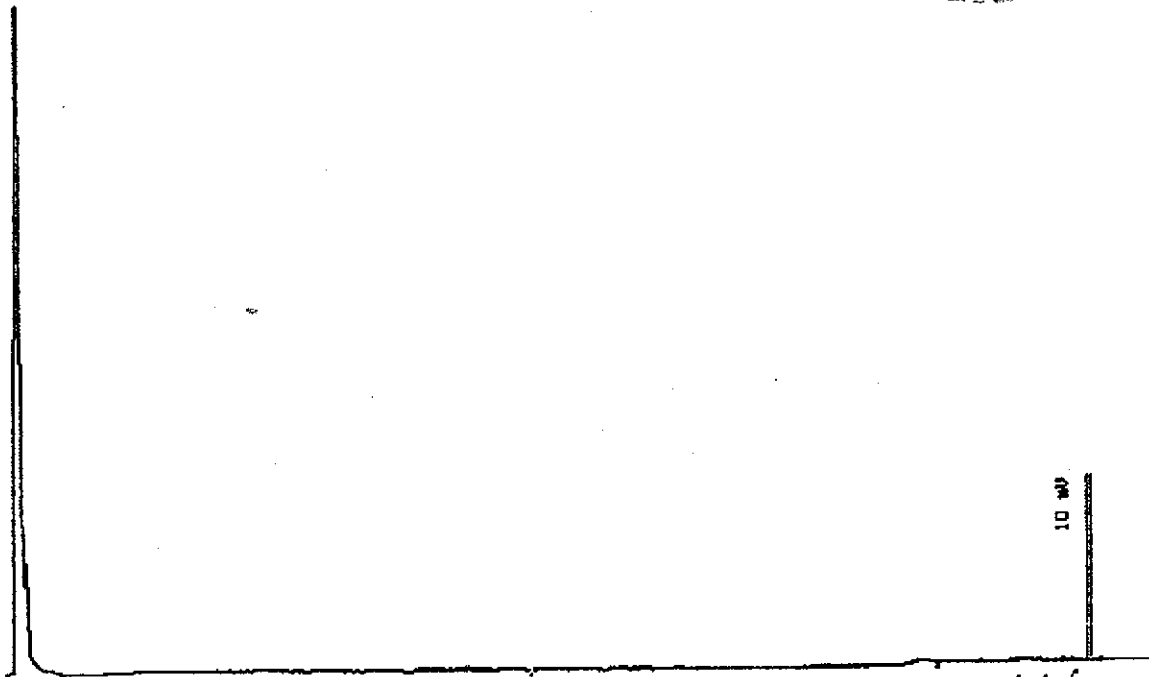
Sample Log 5579
5579-1

Sample: BH6-4'

From : Project # 476003 (Dongary Invest., Oakland)
Sampled : 12/15/92
Extracted: 12/21/92
Dilution : 1:1
Matrix : Soil

QC Batch : 8067D

Parameter	(MDL) <small>mg/lcc</small>	Measured Value <small>mg/lcc</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10 ✓



EPA Method 8018

Date: 12-22-92 Time: 01:36:14
Column : 0.63mm ID X 18m DB1 (J&M Scientific)

Stewart Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-2

Sample: BH6-7'

From : Project # 476003 (Dongary Invest., Oakland)

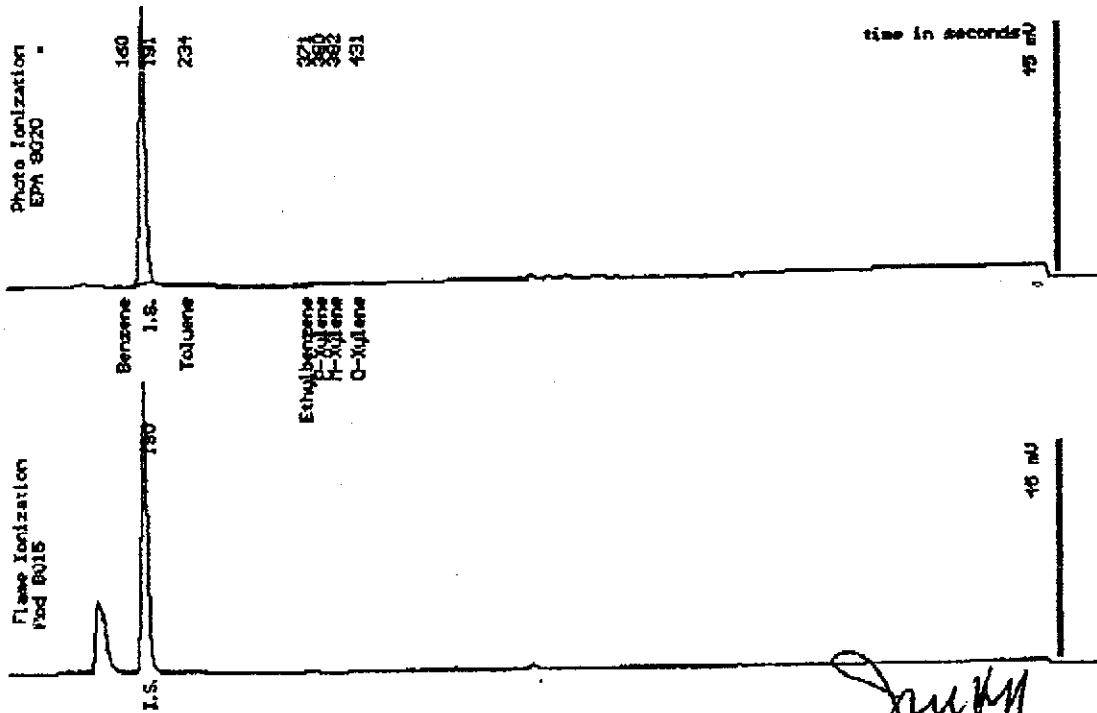
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) <small>ug/kg</small>	Measured Value <small>ug/kg</small>
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-82
Column : 0.53mm ID X 30m DBMAX (J&H Scientific)

Joel Kistner
Joel Kistner
Senior Chemist



Sample Log 5579

5579-2

Sample: BH6-7'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

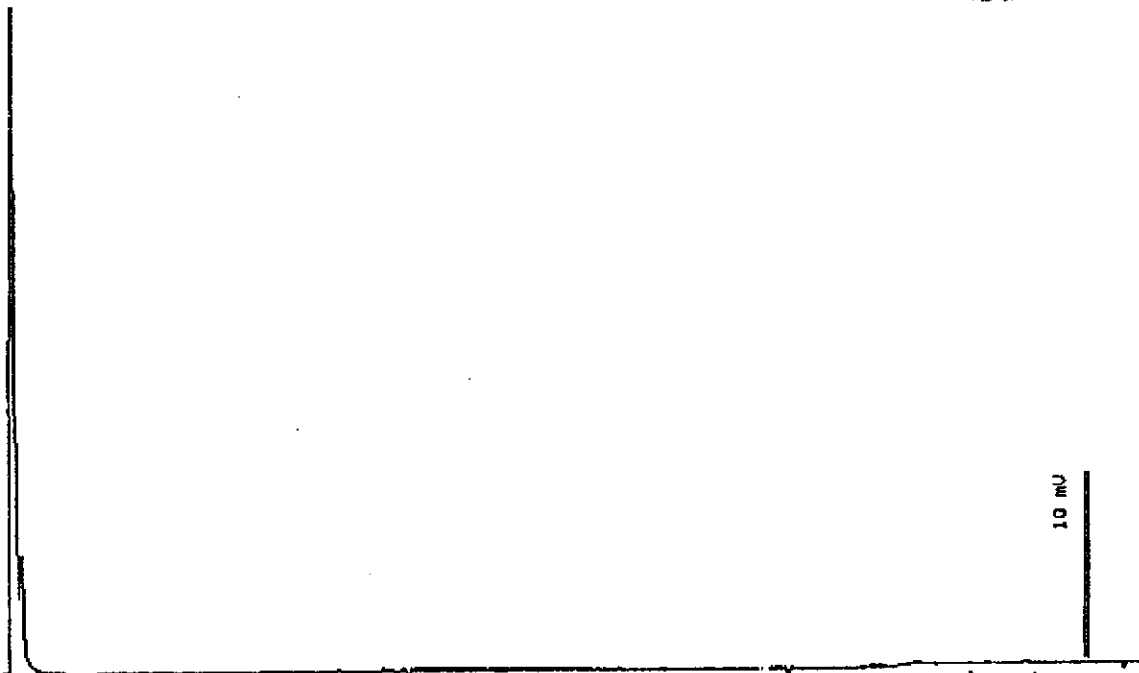
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067D

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 12-22-92 Time: 02:11:42
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

P. Podolsky

Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-3

Sample: BH7-4'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

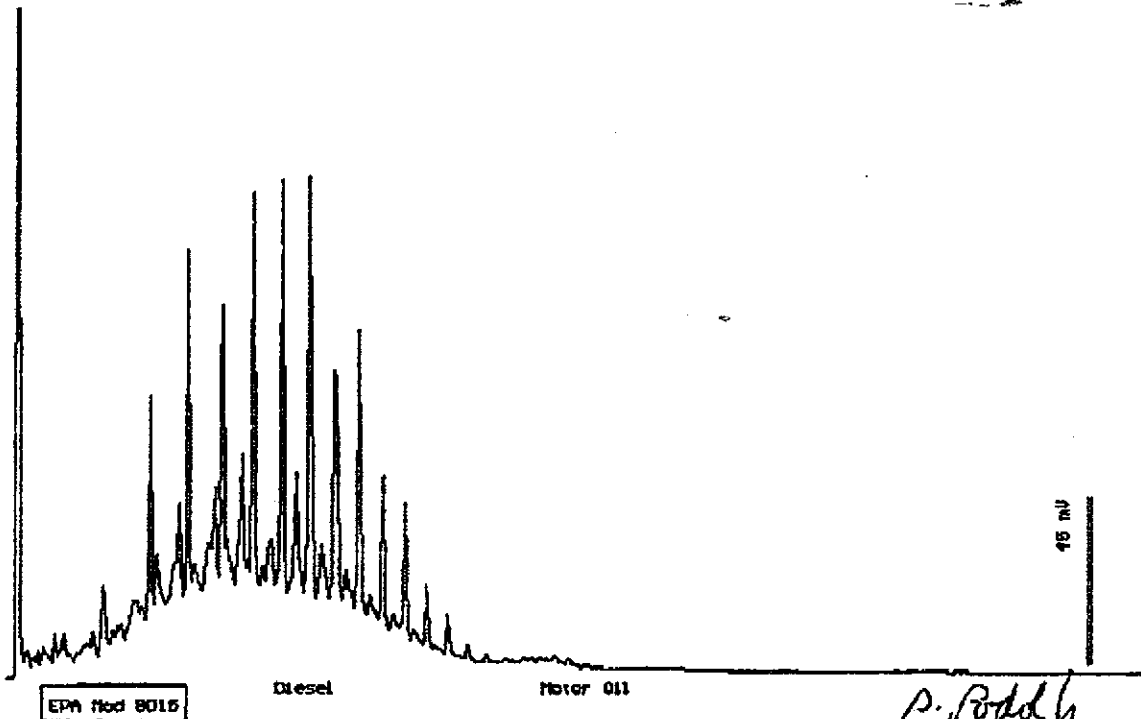
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067D

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	310
TPH as Motor Oil	(10)	18



Date: 12-22-92 Time: 02:46:48
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

P. Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-4

Sample: BH9-4'

From : Project # 476003 (Dongary Invest., Oakland)

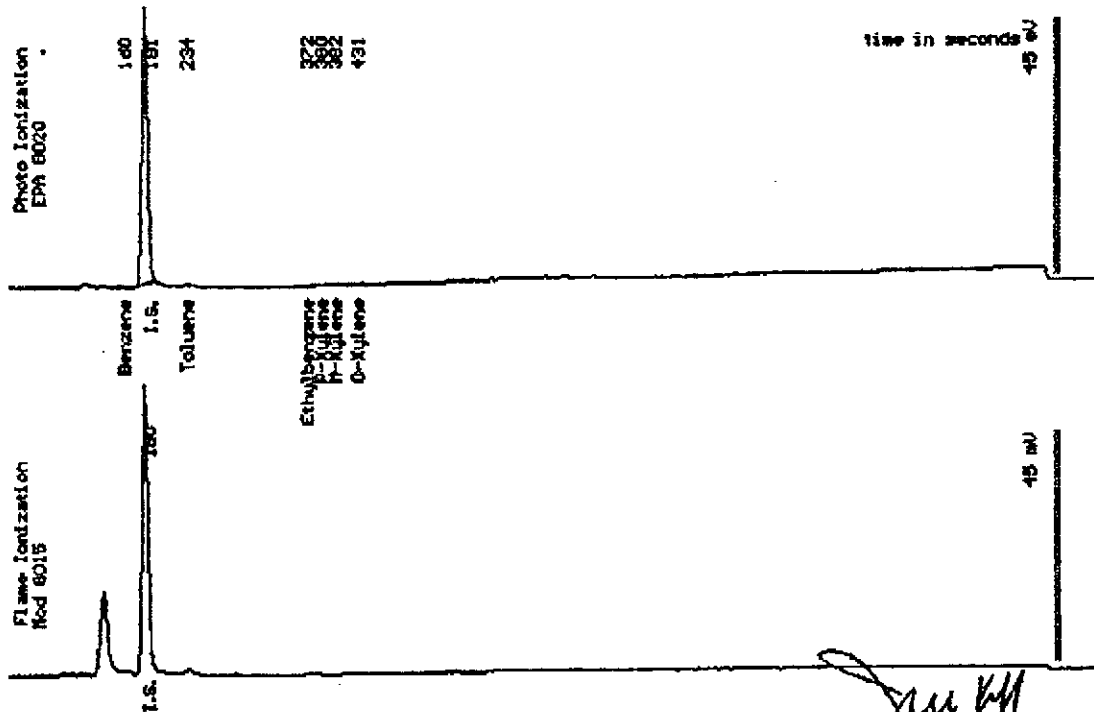
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(NDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-82
Column : 0.03mm ID X 30m DBWAX (J&H Scientific)

[Signature]
Joel Kliff
Senior Chemist



Sample Log 5579

5579-4

Sample: BH9-4'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

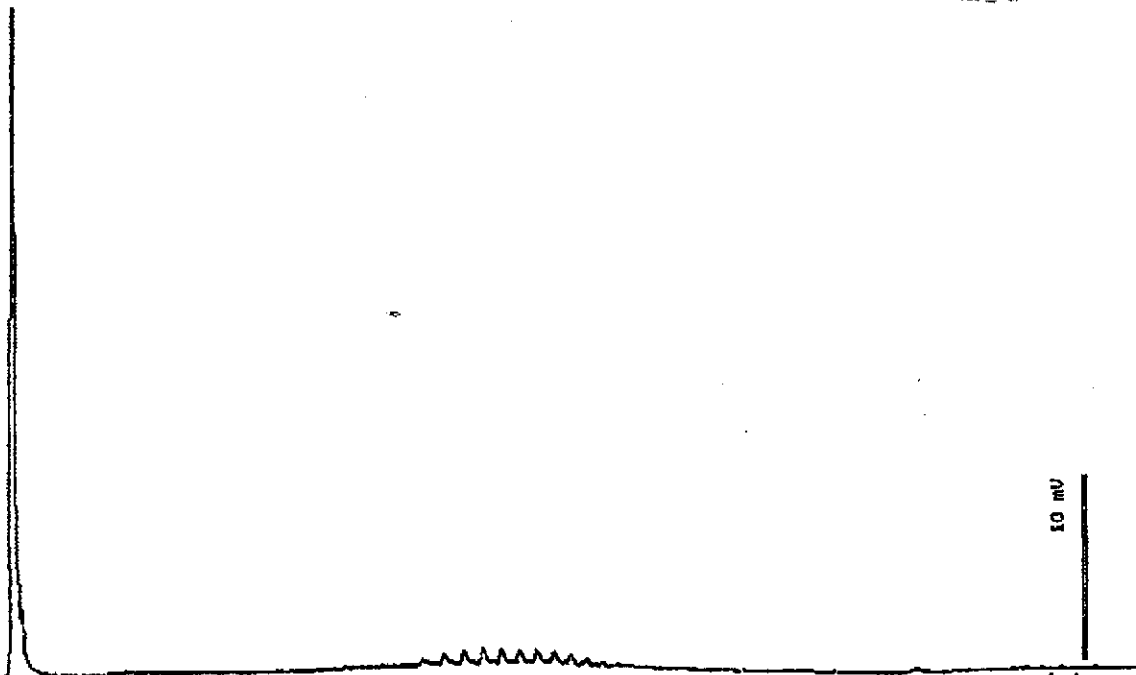
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067D

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA mod 8015

Date: 12-22-92 Time: 09:21:16
Column : 0.33mm ID X 15m DB1 (J&H Scientific)

S. Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-6

Sample: BH9-6'

From : Project # 476003 (Dongary Invest., Oakland)

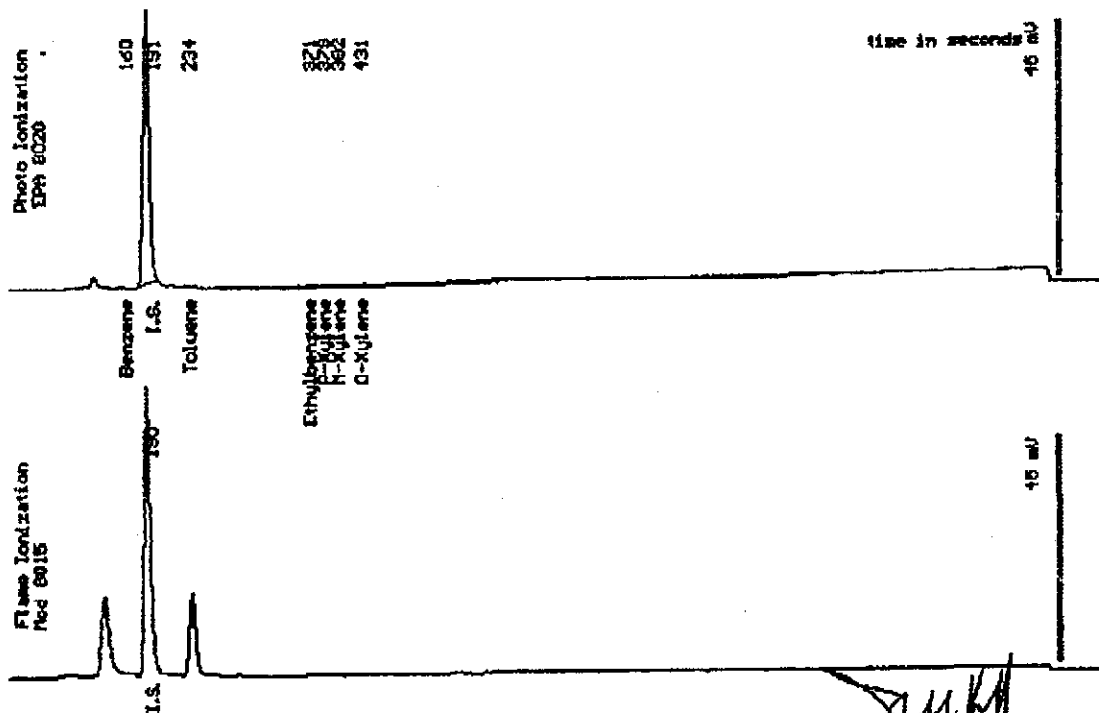
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) $\mu\text{g/kg}$	Measured Value $\mu\text{g/kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed 12-20-92
Column : 0.53mm ID X 30m DBMx (J&M Scientific)

[Signature]
Tom Kiff
Senior Chemist



Sample Log 5579

5579-5

Sample: BH9-6'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

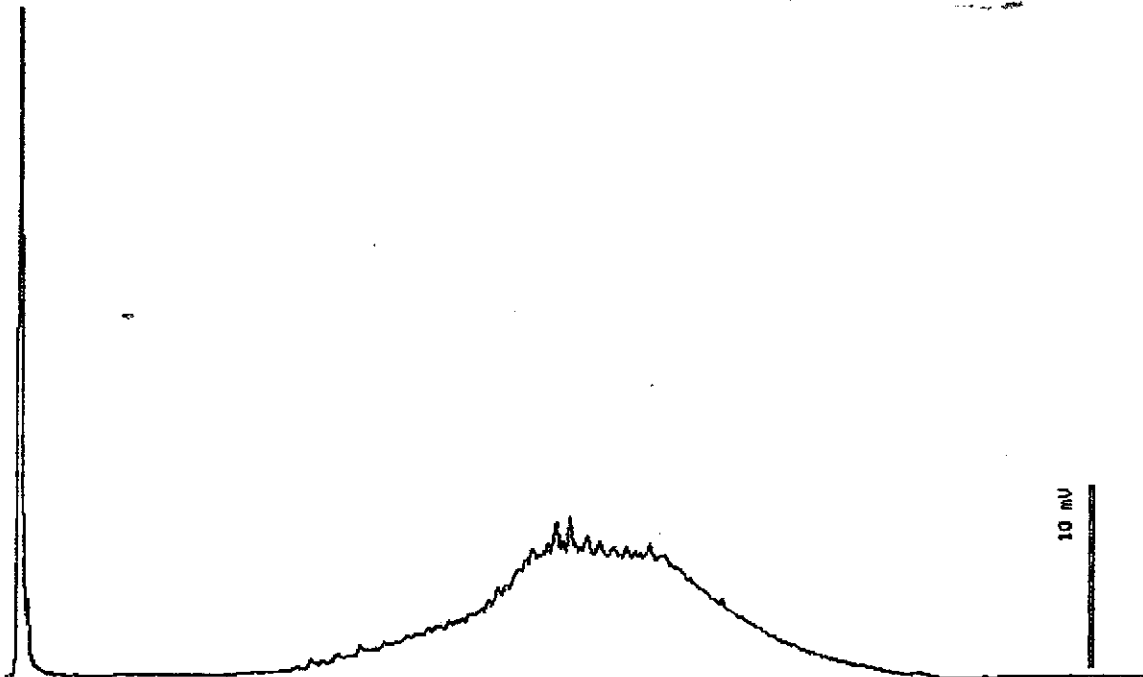
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067D

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10 ✓
TPH as Motor Oil	(10)	53 ✓



EPA Method 8015

Motor Oil

Stuart Podolsky
Stuart Podolsky
Senior Chemist

Date: 12-22-92 Time: 03:55:43
Column: 0.53mm ID X 15m DB1 (J&W Scientific)



Sample Log 5579

5579-6

Sample: BH10-5'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

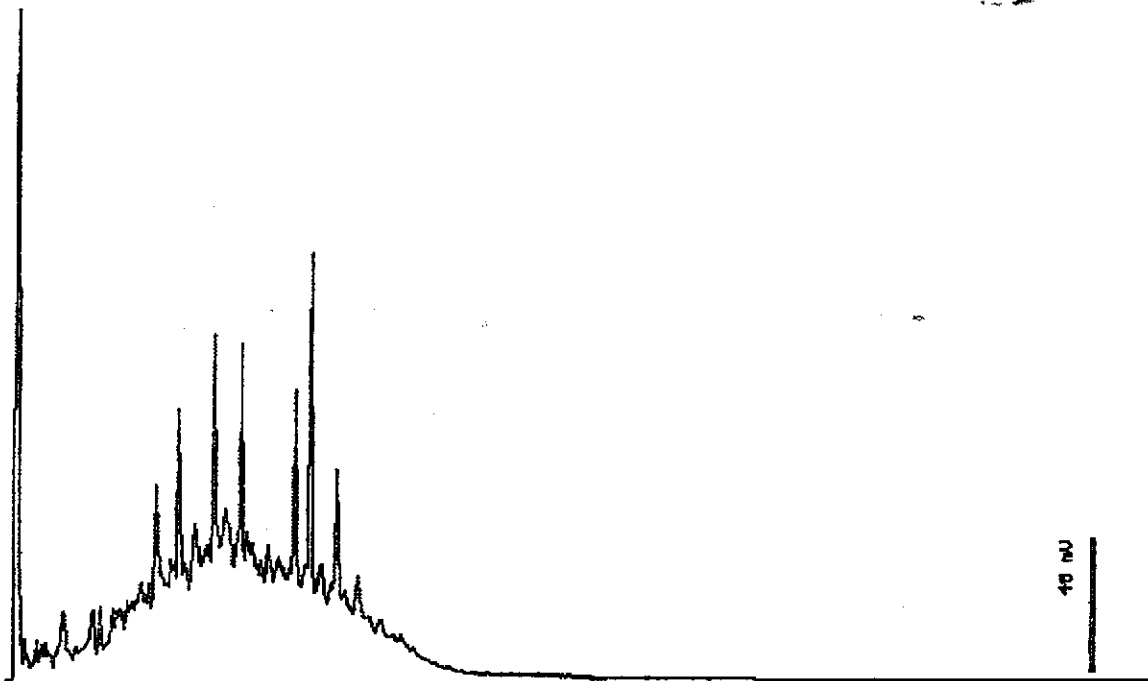
Extracted: 12/21/92

Dilution : 1:5

Matrix : Soil

QC Batch : 8067D

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(50)	1800 ✓
TPH as Motor Oil	(50)	<50 ✓



DPH Mod 6015

Diesel

Date: 12-22-92 Time: 06:47:56
Column : 0.03mm 10 X 15m DB1 (J&W Scientific)

D. Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

0579-7

Sample: BH12-4'

From : Project # 476003 (Dongary Invest., Oakland)

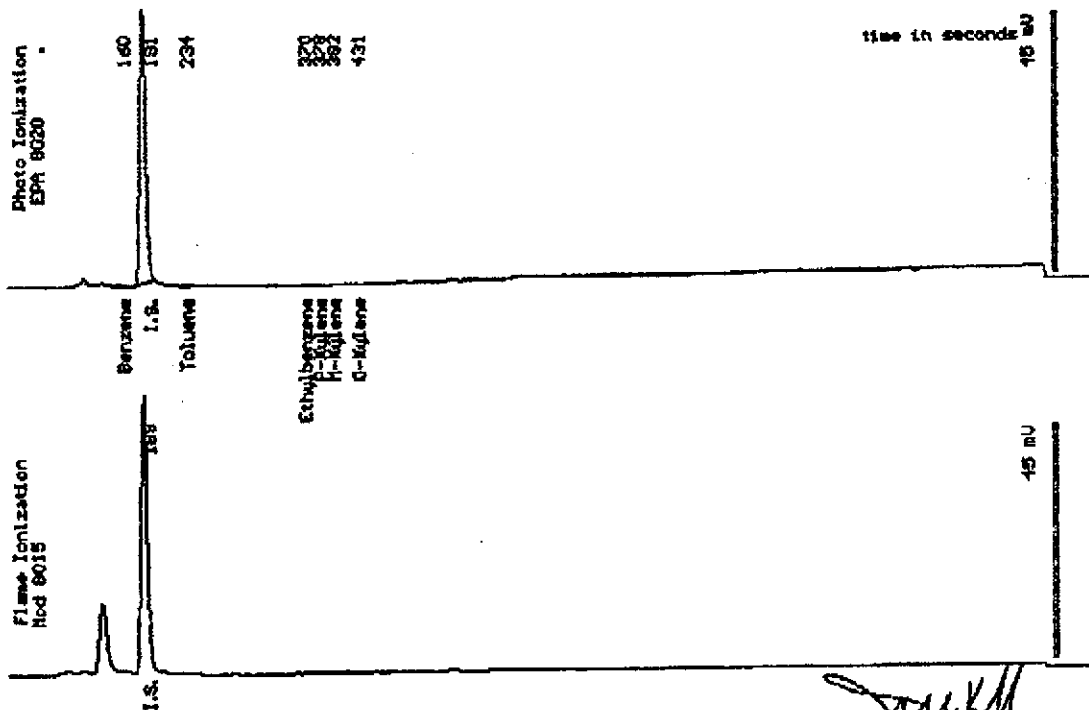
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-92
Column : 0.53mm ID X 30m DBMEX (J&H Scientific)

John Kiff
Senior Chemist



Sample Log 5579

5579-7

Sample: BH12-4'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

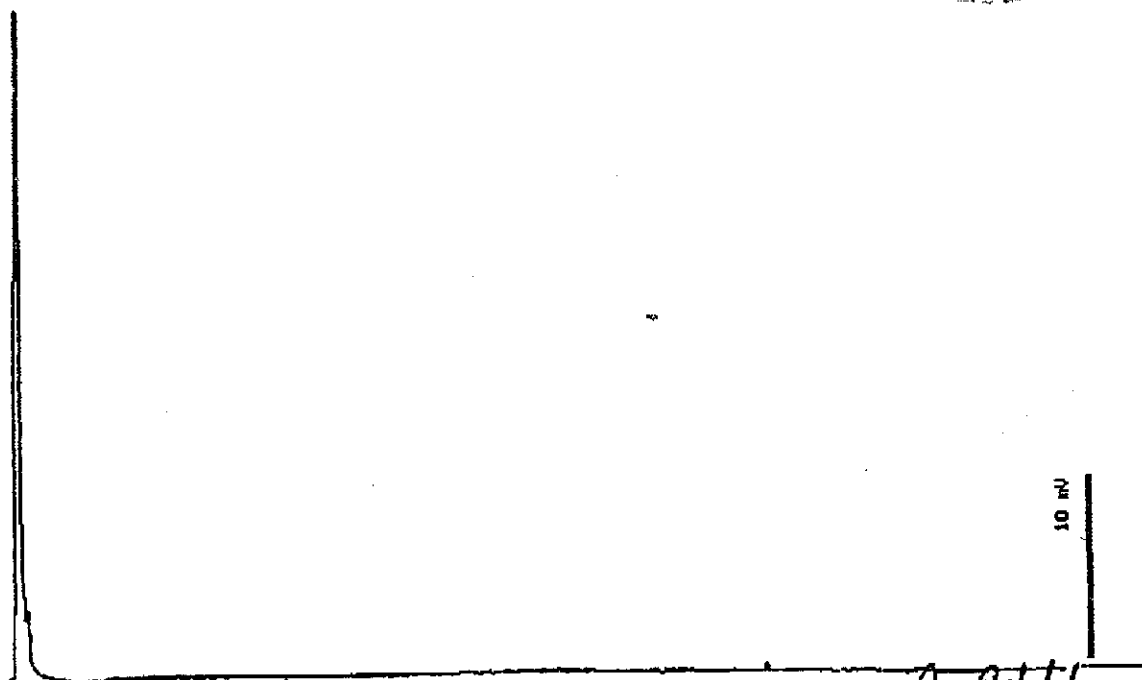
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067E

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 9016

Date: 12-22-92 Time: 07:22:29
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

S. Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-8

Sample: BH12-9'

From : Project # 476003 (Dongary Invest., Oakland)

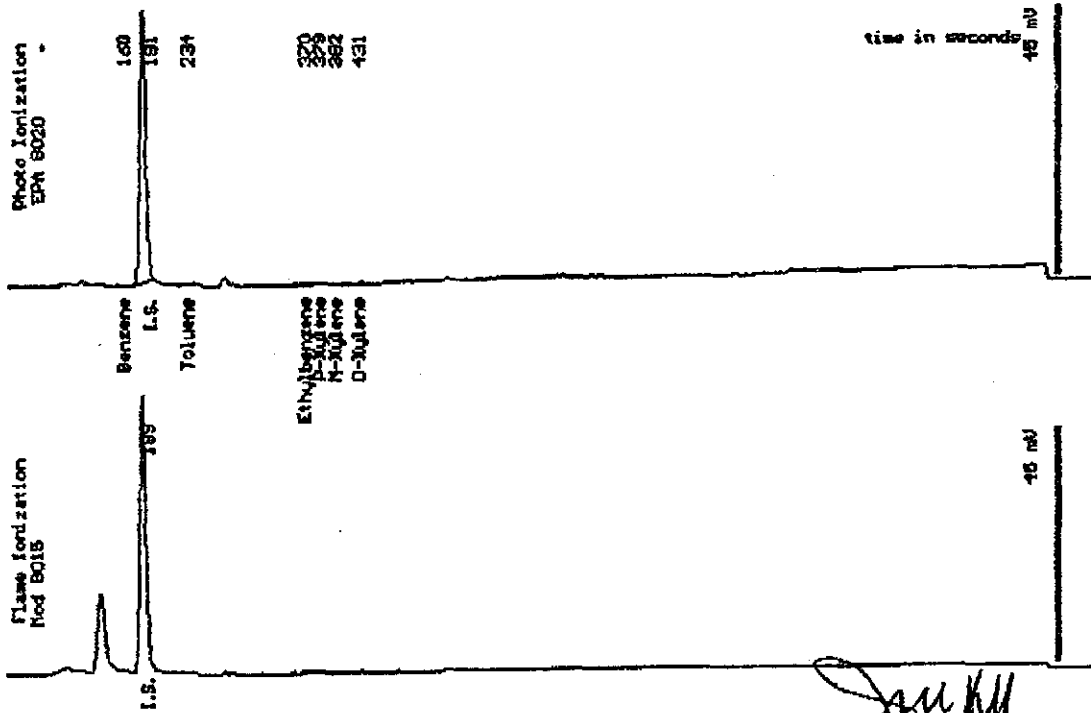
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-92
Column : 0.63mm ID X 30m DBMXX (J&W Scientific)

Jan 1994
Senior Chemist



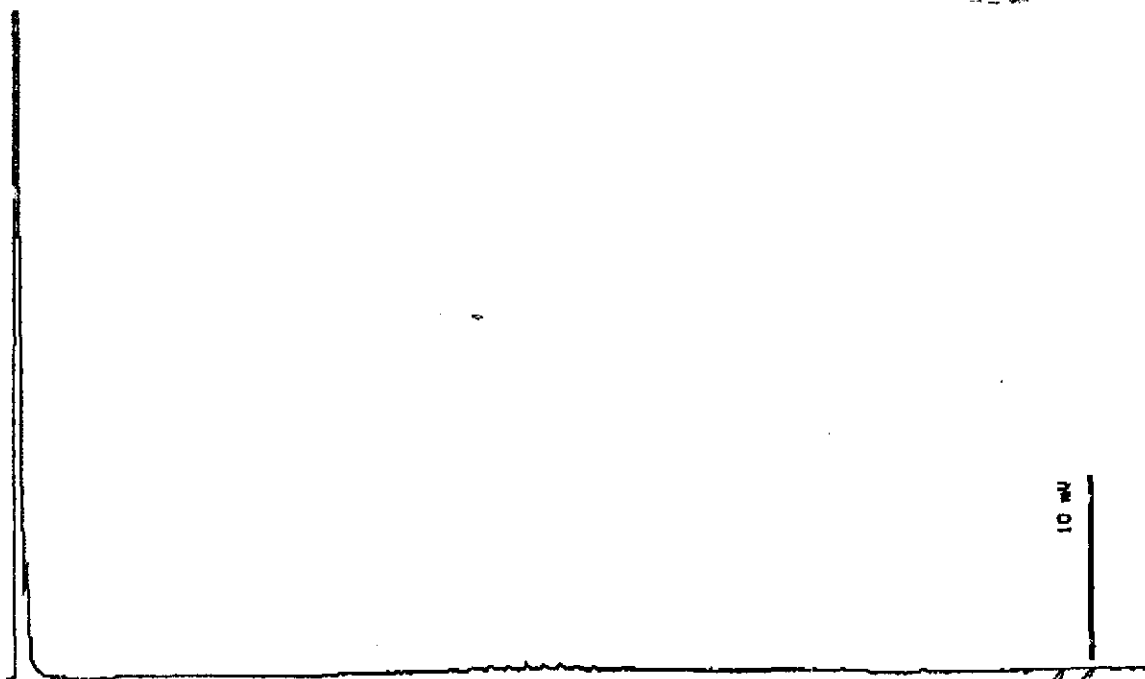
Sample Log 5579
5579-2

Sample: BH12-9'

From : Project # 476003 (Dongary Invest., Oakland)
Sampled : 12/15/92
Extracted: 12/21/92
Dilution : 1:1
Matrix : Soil

QC Batch : 8067E

Parameter	(MDL) <small>ug/kg</small>	Measured Value <small>ug/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 12-22-92 Time: 07:57:12
Column: 0.53mm ID X 15m DB1 (J&H Scientific)

P. Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-9

Sample: BH13-4'

From : Project # 476003 (Dongary Invest., Oakland)

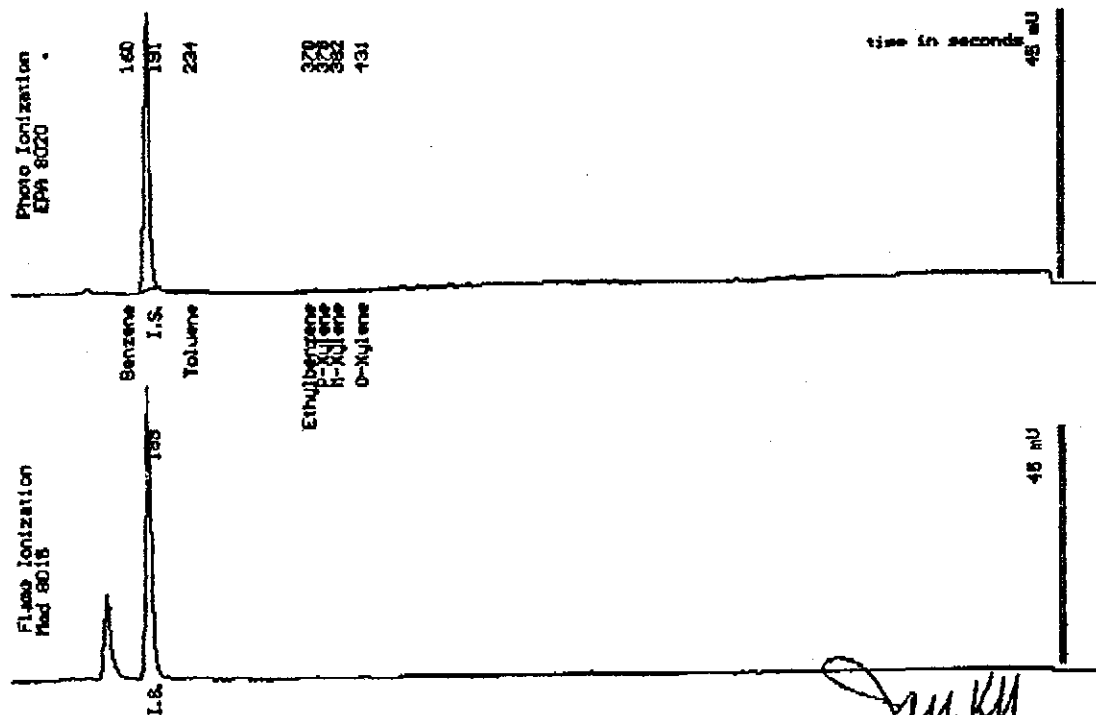
Sampled : 12/15/92

QC Batch : 4072g

Dilution : 1:1

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-92
Column: 0.53mm ID X 30m DBMIX (J&H Scientific)

Joe Kiff
Joe Kiff
Senior Chemist



Sample Log 5579

5579-9

Sample: BH13-4'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

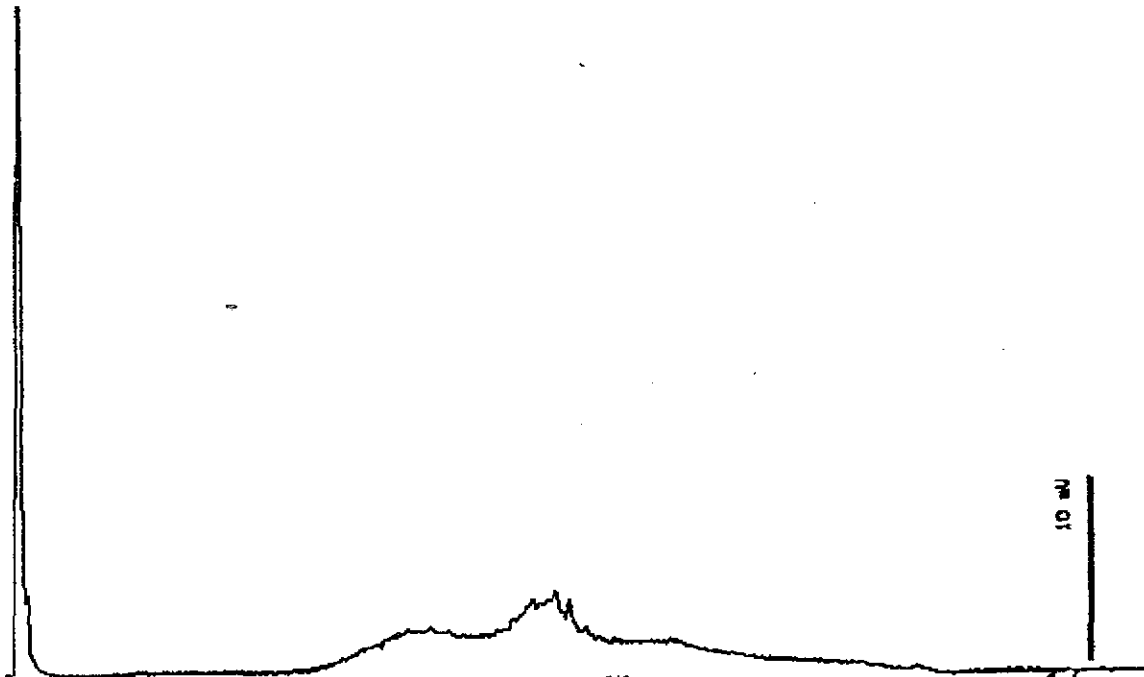
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067E

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	16



Date: 12-22-92 Time: 08:32:53
Column: 0.63mm ID X 10m DB1 (J&M Scientific)

S. Podolsky
Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-10

Sample: BH13-7'

From : Project # 476003 (Dongary Invest., Oakland)

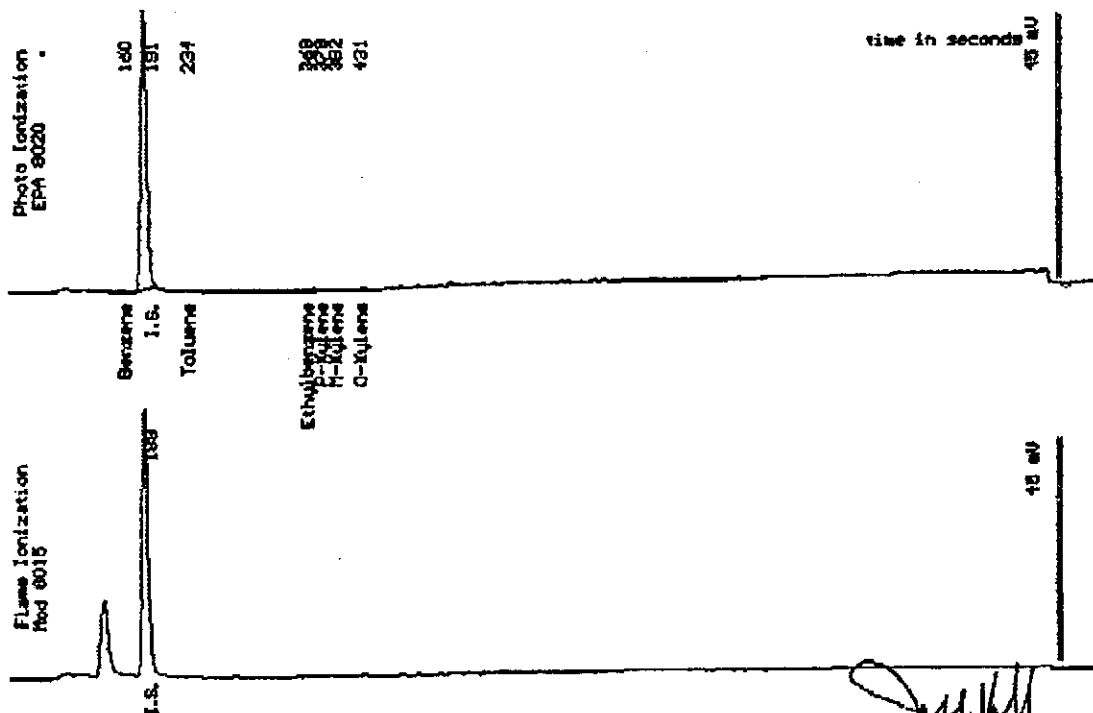
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed 12-20-92
Column : 0.53mm ID X 30m DBMEX (J&M Scientific)

Joni Hill
Joni Hill
Senior Chemist



Sample Log 5579

5579-10

Sample: BH13-7'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

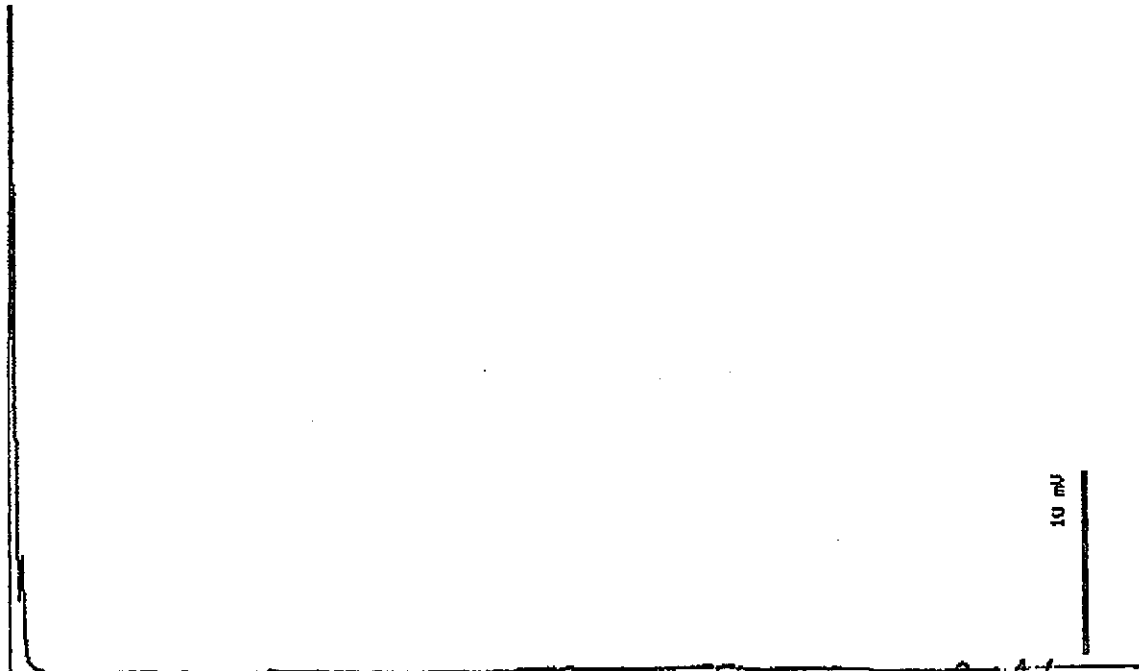
Extracted: 12/21/92

Dilution : 1:1

QC Batch : 8067E

Matrix : Soil

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8016

Date: 12-22-92 Time: 09:07:45
Column : 0.53mm ID X 15m DB1 (J&H Scientific)

S. Podolsky

Stewart Podolsky
Senior Chemist



Sample Log 5579

5579-11

Sample: BH14-4'

From : Project # 476003 (Dongary Invest., Oakland)

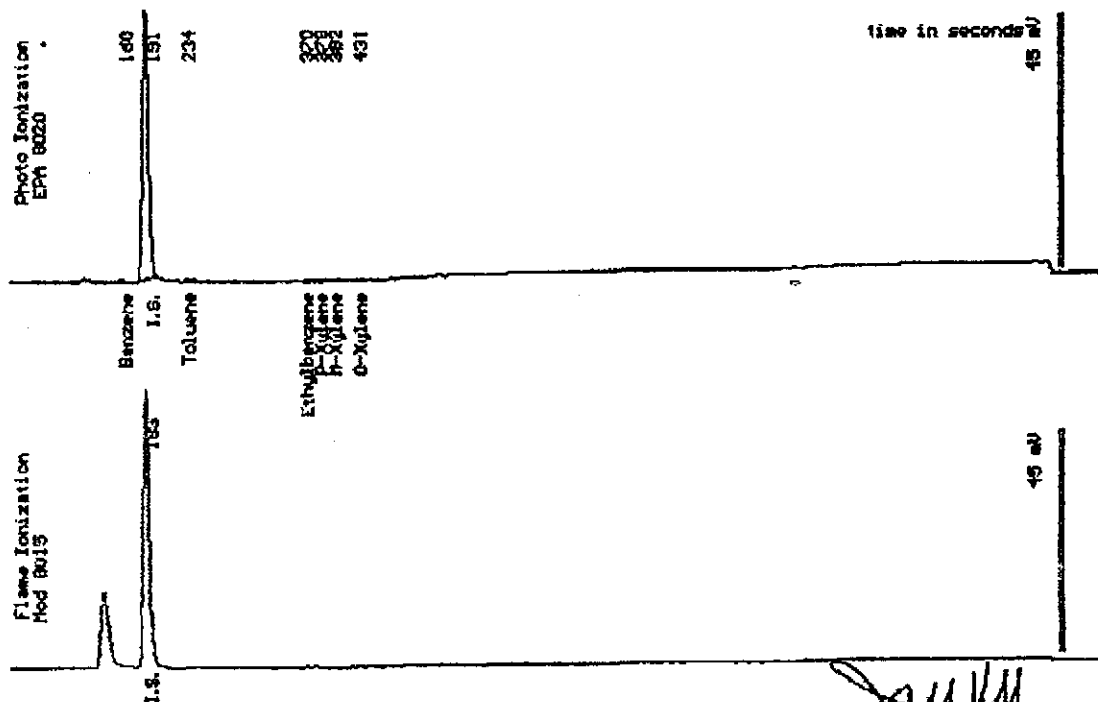
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-92
Column : 0.53mm ID X 30m DBMx (J&M Scientific)

Joe Kliff
Senior Chemist



Sample Log 5579

5579-11

Sample: BH14-4'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

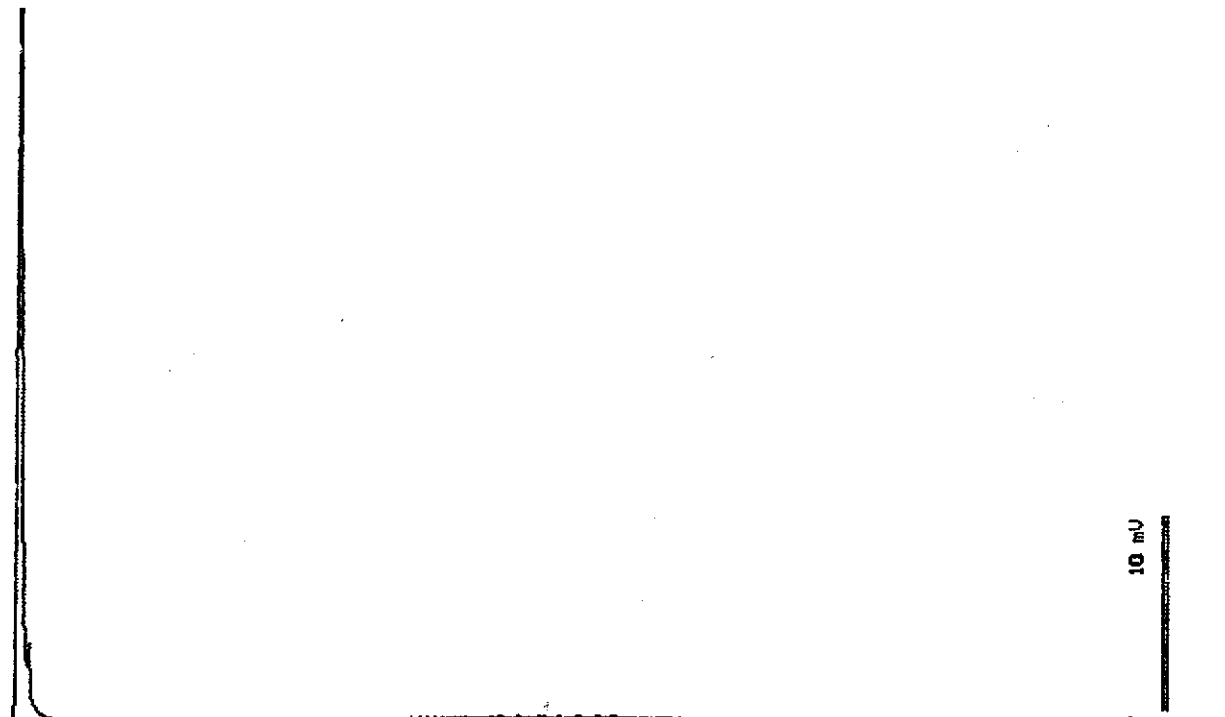
Extracted: 12/21/92

Dilution : 1:1

Matrix : Soil

QC Batch : 8067E

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 12-22-92 Time: 09:42:40
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

S. Podolsky

Stewart Podolsky
Senior Chemist



Sample Log 5579

8879-12

Sample: BH14-7'

From : Project # 476003 (Dongary Invest., Oakland)

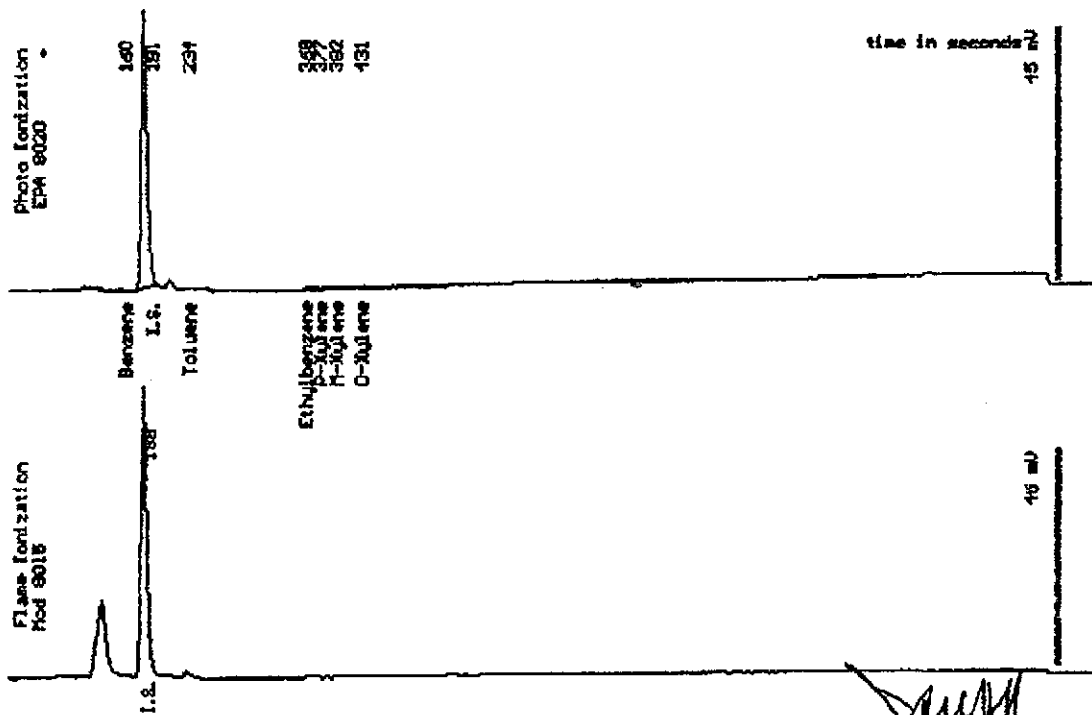
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 12-20-92
Column: 0.63mm ID X 30m DBMIX (J&H Scientific)

Joel Kiff
Senior Chemist



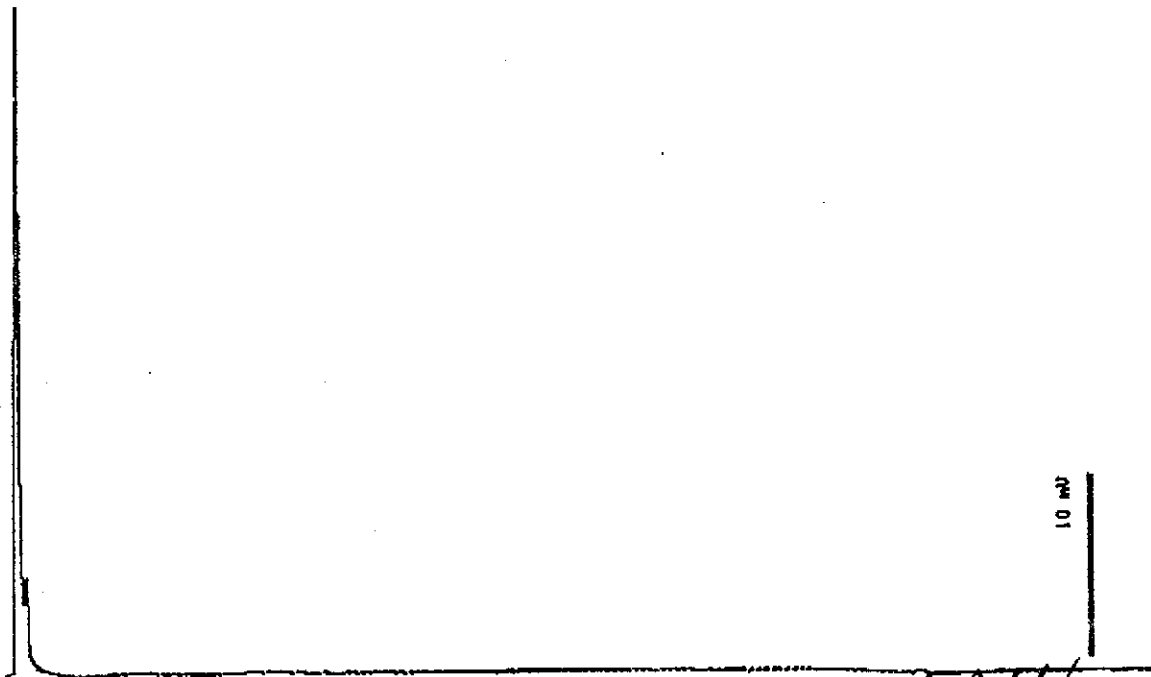
Sample Log 5579
5579-12

Sample: BH14-7'

From : Project # 476003 (Dongary Invest., Oakland)
Sampled : 12/15/92
Extracted: 12/21/92
Dilution : 1:1
Matrix : Soil

QC Batch : 8067E

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 12-22-92 Time: 10:17:11
Column: 0.53mm ID X 10m DB1 (J&H Scientific)

Stuart Podolski
Stuart Podolski
Senior Chemist



Sample: BH15-5'

From : Project # 476003 (Dongary Invest., Oakland)

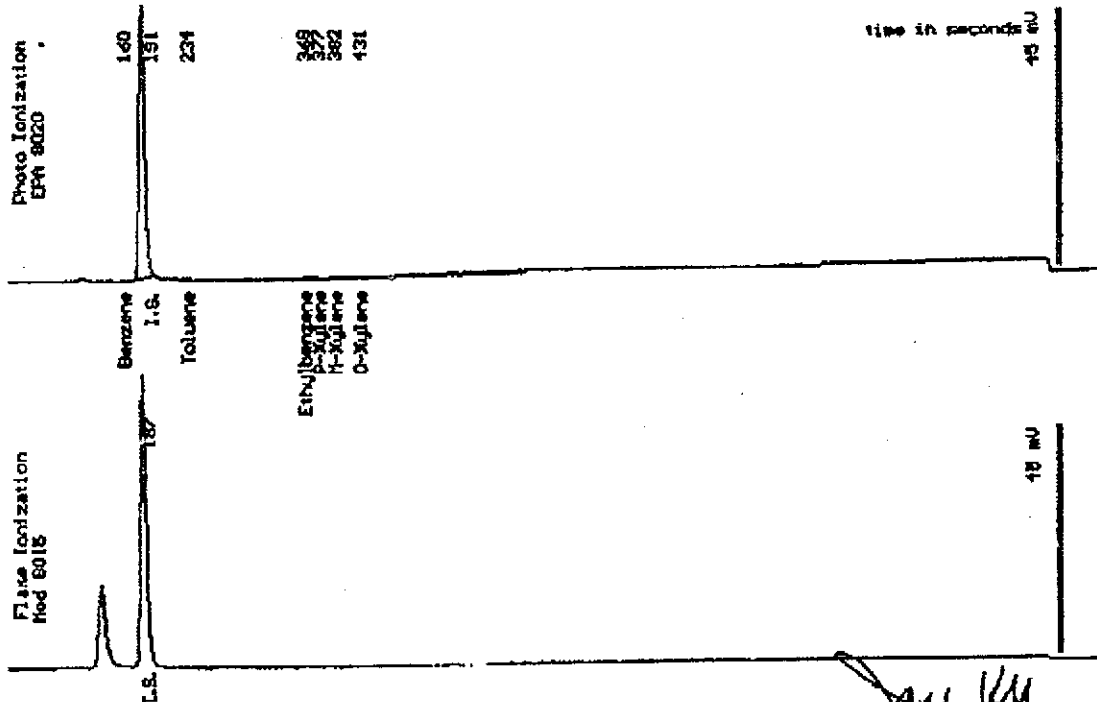
Sampled : 12/15/92

Dilution : 1:1

QC Batch : 4072g

Matrix : Soil

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed 12-20-82
Column : 0.89mm ID X 30m DBWAX (J&H Scientific)

Joe Kliff
Senior Chemist



Sample Log 5579

5579-13

Sample: BH15-5'

From : Project # 476003 (Dongary Invest., Oakland)

Sampled : 12/15/92

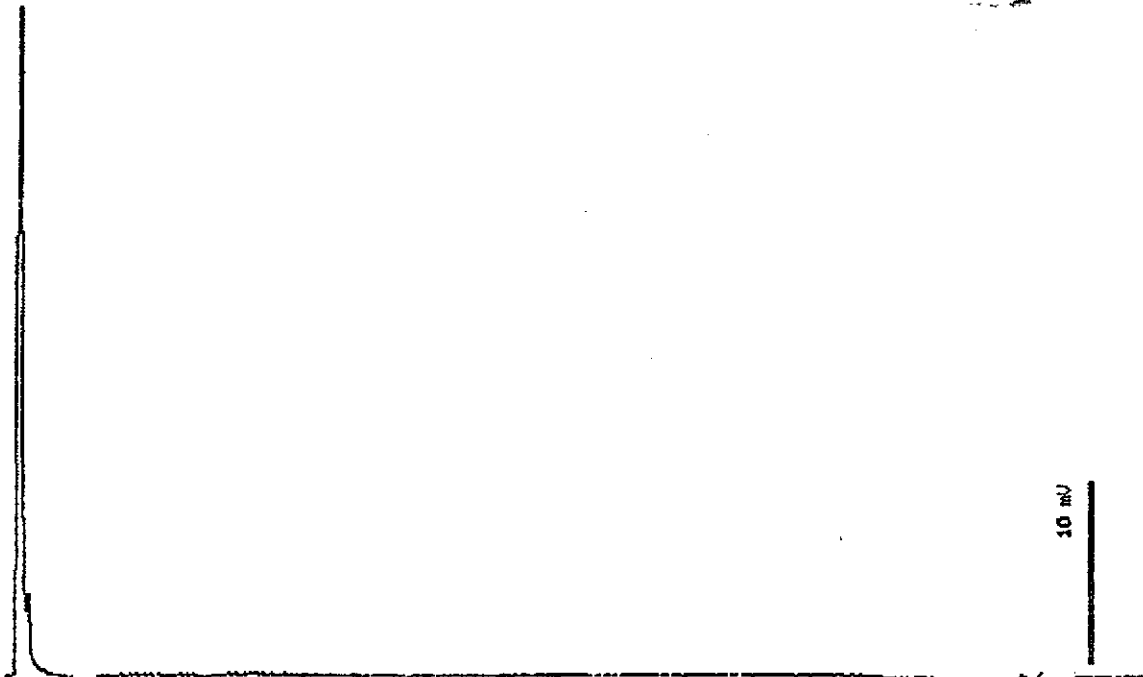
Extracted: 12/21/92

Dilution : 1:1

QC Batch : 8067E

Matrix : Soil

Parameter	(MDL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8018

Date: 12-22-92 Time: 10:52:08
Column : 0.63mm ID X 15m DB1 (JMI Scientific)

D. Podolsky
Stewart Podolsky
Senior Chemist



1046 Olive Drive, Suite 3
Davis, CA 95616

916-753-9500
FAX #: 916-753-6091
LAB#: 916-757-4650

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: **Ramcon Auchterlonie** Phone #: **372-7535**

ANALYSIS REQUEST

TAT

Company/Address: **3751 Commerce Dr. W.Sac., CA 95691** FAX #: **372-4209**

Project Number: **476003** P.O.#: **6991** Project Name: **Dongary Inlt. Oakland**

Project Location: **Part of Oakland 2225 7th St. Oakland, Ca. 94607** Sampler Signature: *J.A. Auchterlonie*

Sample ID	Sampling		Container			Method Preserved				Matrix		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel/Oil (8015)	Total Oil & Grease (\$520 B/E, F)	Total Oil & Grease IR (\$520 B/E, F, C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	C/M - 17 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	Cd, Cr, Pb, Zn, Ni	W.E.T. (✓)	TOTAL (✓)	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2wk)					
	DATE	TIME	VOA	SLEEVE	1L GLASS	1L PLASTIC	HCl	HNO ₃	ICE	NONE	WATER																									SOIL				
BH6-4'	12-15-92	8:38 AM	✓					✓			✓		✓																											
BH6-7'	" "	8:40 AM	✓					✓			✓		✓																											
BH7-4'	" "	9:45 AM	✓					✓			✓		✓																											
BH7-7'	" "	9:49 AM	✓					✓			✓	Hold																												
BH8-5'	" "	11:15 AM	✓					✓			✓	Hold																												
BH8-8'	" "	11:18 AM	✓					✓			✓	Hold																												
BH9-4'	" "	12:22 PM	✓					✓			✓		✓																											
BH9-6'	" "	12:24 PM	✓					✓			✓		✓																											
BH10-5'	" "	3:20 PM	✓					✓			✓		✓																											
BH11-4'	" "	2:55 PM	✓					✓			✓	Hold																												

Relinquished by: *J.A. Auchterlonie* Date Time: **12-17-92 3:34 PM**

Received by: *J. RW*

Remarks: Note: We may need to run BTEX and TPH gasoline on some of this samples. Please preserve some of the sample.

Relinquished by: _____ Date Time: _____

Received by: _____

Relinquished by: *J. RW* Date Time: **12/17/92 16:02**

Received by Laboratory: *[Signature]*

Bill To: Ramcon

RECEIVED
REC'D 12/17/92



1046 Olive Drive, Suite 3
Davis, CA 95616

916-753-9500
FAX #: 916-753-6097
LAB#: 916-757-4650

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Ramcon Aucherlonie Phone #: 372-7535

ANALYSIS REQUEST

TAT

Company/Address: 3751 Commerce Dr. W.Sac., CA 95691 FAX #: 372-4209

Project Number: 476003 P.O.#: 6991 Project Name: Dongary Insect. Oakland

Project Location: Port of Oakland 2225 7th St. Oakland, Ca 94607 Sampler Signature: *Jeff Aucherlonie*

Sample ID	Sampling		Container		Method Preserved				Matrix		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel/Oil (8015)	Total Oil & Grease (5520 B/E, F)	Total Oil & Grease IR (5620 B/E, F, C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 609/8090-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	C&M - 17 Metals	EPA - Priority Pollutant Metals	LEAD(7430/7421/239.2)	Cd, Cr, Pb, Zn, Ni	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2WK)					
	DATE	TIME	VOA	SLEEVE	1L GLASS	1L PLASTIC	HCl	HNO3	ICE	NONE																							WATER	SOIL			
BH12-4'	12-15-92	3:40 PM	✓								✓	✓																									
BH12-7'	" "	3:42 PM	✓								Hold																										
BH12-9'	" "	3:43 PM	✓								✓	✓																									
BH13-4	12-16-92	8:35 AM	✓								✓	✓																									
BH13-5	" "	8:37 AM	✓								Hold																										
BH13-7'	" "	8:39 AM	✓								✓	✓																									
BH14-4'	" "	9:41 AM	✓								✓	✓																									
BH14-7'	" "	9:43 AM	✓								✓	✓																									
BH15-5'	" "	11:21 AM	✓								✓	✓																									

W.E.T. (✓)
TOTAL (✓)

Relinquished by: <i>Jeff Aucherlonie</i>	Date Time: 12-17-92 3:32 PM	Received by: <i>[Signature]</i>	Remarks: Samples appear to be clean -
Relinquished by: <i>[Signature]</i>	Date Time:	Received by:	
Relinquished by: <i>[Signature]</i>	Date Time: 12/17/92 16:02	Received by Laboratory: <i>[Signature]</i>	

Bill To: RAMCON

