



Chevron

April 25, 1994

Chevron U.S.A. Products Company

2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department

Phone 510 842 9500

Ms. Jennifer Eberle
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Former Gulf Service Station #0006
460 Grand Avenue, Oakland, CA**

Dear Ms. Eberle:

Enclosed is the Soil Excavation and Remediation Report dated March 11, 1994, prepared by our consultant Touchstone Developments for the above referenced site. This work was performed in accordance with the work plan dated October 27, 1993, prepared by our consultant Pacific Environmental Group.

Approximately 800 cubic yards of soil in the vicinity of the former underground waste oil tanks, pump islands, and oil-water separator was excavated and disposed of at appropriate off-site facilities. As indicated in the report, residual hydrocarbon concentrations remain in the soil along the northern and southern property boundaries as excavation was limited in these directions. Excavation was limited to the north by a retaining wall and to the south by Grand Avenue. All analytical data is summarized in Tables A, B, and C of the report.

Based on the data collected to date, it appears that no further soils work is warranted nor possible at this time. We are currently working with the property owner to develop a mutually agreeable timetable for the installation of additional wells as set forth in the January 15, 1993, work plan by Pacific Environmental Group. *Feb 17*

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiatt, RWQCB - Bay Area
Mr. Jon Robbins - CHVPKV/V1156
Ms. B.C. Owen

94 APR 28 PM 1:06

HAZMAT
ALCO

Mr. John C. Gibson
Adams, Gibson & MacPhee
22 Battery Street, 10th Floor
San Francisco, CA 94111

File: GULF6 EX RPT1



SOIL EXCAVATION AND REMEDIATION REPORT

for

**Former Gulf Service Station No. 0006
460 Grand Avenue
Oakland, California**

Prepared for

**Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, California 94583**

by

Touchstone Developments

March 11, 1994

APR 15 '94 J.M.M.



March 11, 1994

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, California 94583

Attention: Mark Miller

Reference: Soil Excavation and Remediation Report
Former Gulf 0006
460 Grand Avenue
Oakland, California

Gentlemen:

INTRODUCTION

This report prepared by Touchstone Developments (TD) documents soil excavation and remediation activities performed at the above referenced location (Figure 1) as previously outlined in Pacific Environmental Group, Inc.'s Work Plan dated October 27, 1993. Soil excavation and remediation activities were performed on January 3, 1994 through January 21, 1994. Remedial efforts were directed at areas where soil contamination was identified from underground storage tank (UST) removal sampling as documented in Treadwell and Rollo, Inc.'s report dated January 29, 1991. During overexcavation activities another waste oil tank (Approximately 250 gallons) was discovered and removed on January 5, 1994 (Figure 1).

SITE ACTIVITIES

Soil remediation involved the excavation and removal of suspected hydrocarbon contaminated soil in the vicinity of the former underground waste oil storage tanks, oil-water separator and pump islands (Figure 1). Excavation activities were performed by Golden West Builders of Livermore, California and a representative from TD was also on site to observe excavation activities and to collect soil samples from the excavation and associated stockpiles. Representatives Jennifer Eberle, Barney Chan and Susan Hugo from Alameda County Health Agency (ACHA) were present at various times our excavation sampling activities.

On January 5, 1995 a 250 gallon steel single wall waste oil tank was removed. Gary Collins from Oakland's Fire Department and Jennifer Eberle with ACHA were on site to ob-

serve the tank being removed and samples collected. Also present was Mark Miller representing Chevron U.S.A. Products Company. ✓

Soil Sampling

Verification soil samples were collected from the excavation bottom and sidewalls at various depths. Soil samples were collected from the excavator bucket by removing the top few inches of soil and pushing a clean, six-inch-long (Two inches in diameter) brass sample tube into the soil until completely full. The ends of the tubes were covered with aluminum foil and sealed with plastic end caps. The samples were then labeled, placed in a cooler with ice, entered on a Chain-of-Custody form and transported to Superior Precision Analytical, Inc., a State-certified Laboratory located in Martinez, California.

Soil samples collected from the waste oil tank and oil-water separator excavations and associated stockpiles were analyzed for Total Petroleum Hydrocarbons (TPH) calculated as gasoline and diesel according to EPA Method 8015 (Modified), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020, Total Oil and Grease (TOG) according to EPA Method 5520F, Volatile Organic Compounds (VOCs) according to EPA Method 8010, Semi-volatile Organic Compounds according to EPA Method 8270 and ICAP Metals according to EPA Method 6010 (Additional metals were analyzed for some stockpile samples for disposal purposes). The soil samples collected from the pump island overexcavation and associated stockpiles were analyzed for TPH-gasoline and BTEX. One stockpile sample was additionally analyzed for Organic Lead for disposal purposes. Sample depths and analytical summaries are found in Tables A and B. ✓ Copies of the analytical laboratory reports and Chain-of-Custody forms are presented in Appendix A. ✓

Four discrete stockpile samples were collected for approximately every 100 cubic yards of soil generated. The four samples were then composited in the laboratory and analyzed as one. These samples were collected by removing the top 10 to 14 inches of soil, then pushing a sample tube into the soil until completely full. The samples were sealed, labeled and handled as described above.

SOIL EXCAVATION AND REMEDIATION

The excavation in the vicinity of the former waste oil tanks was performed from January 3, 1994 through January 21, 1994. The excavation was approximately 51 feet long by 32 feet at the widest location and 8 feet in depth (Figure 1). Soil

samples designated WX-1 through WX-8 and WO-1 through WO-11 were collected from the waste oil tank overexcavation sidewalls at approximately 3 to 6 feet below grade as shown in Figures 2 and 3. Groundwater was encountered between 5 1/2 to 7 feet below grade in this excavation.

The excavation in the oil-water separator area was performed January 3, 1994. Final excavation dimensions were approximately 5 to 9 feet wide, 14 feet long and 7 feet in depth. Sidewall samples designated SM-1, SM-2 and SM-3 were collected at approximately 5 feet below grade and one bottom sample designated SM-B collected at approximately 7 feet below grade in this area as shown in Figures 2 and 3.

The pump island overexcavation was approximately 30 feet in width, 37 feet long and approximately 8 feet in depth along the eastern half of the excavation and as deep as approximately 12 feet along the western portion of the excavation. Sidewall samples were designated IX-1 through IX-22 and were collected from approximately 3 to 10 feet below grade. Samples IB-1 through IB-3 were collected from the excavation bottom approximately 7 to 9 feet below grade as shown in Figures 2 and 3. Groundwater was encountered at approximately 9 1/2 feet below grade in this excavation.

Stockpile Remediation

The soil stockpiles generated from the waste oil tank overexcavation activities were sampled (designated SP-2a-d and SP-3a-d) and represent approximately 350 cubic yards of soil. The soil stockpile originally represented by sample SP-1a-d from previous excavation activities (See TD report dated January 12, 1993) was also profiled for disposal and is included in the total volume estimate for disposal at Forward Landfill located in Stockton, California. Soils were transported by Stamco/Allwaste Trucking during January 1994 to Forward.

how much?
doc.?

The soils generated from the pump island excavation were characterized by samples designated SP-4a-d through SP-8a-d and represent approximately 425 to 500 cubic yards. These stockpiles were aerated and resampled designated ASP-4a-d through ASP-8a-d. These stockpiles were then profiled for disposal at Redwood Landfill located in Novato, California. On January 27 and 31, 1994. 400 ppm

were they
disposed?
yes

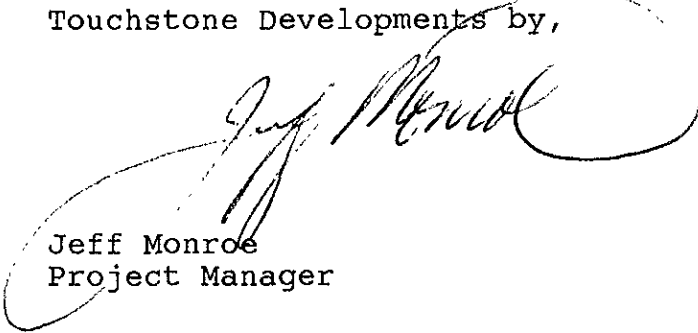
EXCAVATION COMPLETION

Upon excavation completion, clean imported material was used to backfill the excavation.

Page 4

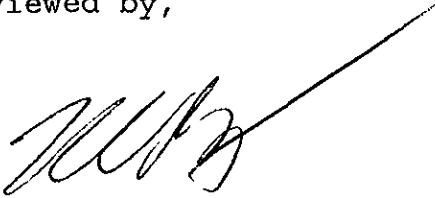
If you have questions, please call me at (707) 538-8818.

Touchstone Developments by,



Jeff Monroe
Project Manager

Reviewed by,



Marc W. Seeley
CEG 1014

MWS/JLM/jlm

Figure 1: Site Plan
Figure 2: Site Plan with Excavation and Sample Locations in Progress
Figure 3: Final Excavation and Sample Locations
Figure 4: Aerated Stockpile and Sample Locations
Table A: Overexcavation Sample Summary
Table B: Stockpile Sample Summary
Appendix A: Analytical Reports and Chain-of-Custody Form

Table A: Analytical Summary for Over-excavation Samples (in ppm)

Waste Oil Tank Excavation Sampling Results

Sample ID	Depth (FT)	TPH-gas	Benzene	Toluene	Ethyl Benzene	Xylenes	TPH-D	TOG	8010	8270	Metals
WX-1 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	2 ✓	ND ✓	ND ✓	ND ✓	• ✓
WX-2 ✓	5.5 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	• ✓
WX-3 ✓	3 ✓	30 ✓	ND ✓	ND ✓	ND ✓	0.95 ✓	1300 ✓	970 ✓	• ✓	• ✓	• ✓
WX-4 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	470 ✓	ND ✓	ND ✓	ND ✓	• ✓
WX-5 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	24 ✓	ND ✓	ND ✓	ND ✓	• ✓
WX-6 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	3 ✓	ND ✓	ND ✓	ND ✓	• ✓
WX-7 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	14 ✓	ND ✓	ND ✓	ND ✓	• ✓
WX-8 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	2 ✓	ND ✓	ND ✓	ND ✓	• ✓
WO-1 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.008 ✓	ND ✓	ND ✓	ND ✓	ND ✓	• ✓
WO-2 ✓	6 ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.011 ✓	ND ✓	ND ✓	ND ✓	ND ✓	• ✓
WO-3 ✓	6.5 ✓	170 ✓	ND ✓	ND ✓	0.36 ✓	0.34 ✓	4400 ✓	120 ✓	ND ✓	ND ✓	• ✓
WO-4 ✓	6.5 ✓	27 ✓	ND ✓	0.007 ✓	0.064 ✓	0.18 ✓	130 ✓	210 ✓	ND ✓	ND ✓	• ✓
WO-5 ✓	5 ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.005 ✓	ND ✓	ND ✓	NA ✓	NA ✓	NA ✓
WO-6 ✓	5 ✓	5* ✓	ND ✓	ND ✓	ND ✓	0.011 ✓	17* ✓	ND ✓	NA ✓	NA ✓	NA ✓
WO-7 ✓	5 ✓	16* ✓	ND ✓	0.008 ✓	ND ✓	0.066 ✓	51* ✓	ND ✓	NA ✓	NA ✓	NA ✓
WO-8 ✓	4.5 ✓	10* ✓	0.005 ✓	0.007 ✓	0.007 ✓	0.031 ✓	200* ✓	ND ✓	NA ✓	NA ✓	NA ✓
WO-9 ✓	5.5 ✓	49 ✓	0.077 ✓	0.71 ✓	0.39 ✓	6.43 ✓	10 ✓	ND ✓	• ✓	ND ✓	NA ✓
WO-10 ✓	5 ✓	18 ✓	ND ✓	ND ✓	0.084 ✓	0.36 ✓	90 ✓	ND ✓	ND ✓	ND ✓	NA ✓
WO-11 ✓	4.5 ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.006 ✓	2 ✓	ND ✓	ND ✓	ND ✓	NA ✓

1-13-94
1-5-94
1-20
1-21

chlorine

Pump Island Excavation Sampling Results

Sample ID	Depth (FT)	TPH-gas	Benzene	Toluene	Ethyl Benzene	Xylenes
IB-1 ✓	9 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
IB-2 ✓	7 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
IB-3 ✓	9 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
IX-1 ✓	8.5 ✓	18 ✓	0.97 ✓	2.2 ✓	0.4 ✓	2.5 ✓
IX-2 ✓	8.5 ✓	1900 ✓	2 ✓	11 ✓	15 ✓	66 ✓
IX-3 ✓	3 ✓	390 ✓	1.3 ✓	5.8 ✓	1.9 ✓	8.7 ✓
IX-4 ✓	8 7 ✓	84 ✓	0.89 ✓	3.2 ✓	2.6 ✓	16 ✓
IX-5 ✓	8 ✓	4 ✓	0.73 ✓	0.62 ✓	0.12 ✓	0.62 ✓
IX-6 ✓	7 ✓	ND ✓	ND ✓	ND ✓	ND ✓	0.008 ✓
IX-7 ✓	7 ✓	ND ✓	0.016 ✓	0.013 ✓	0.017 ✓	0.068 ✓
IX-8 ✓	6 ✓	1 ✓	0.023 ✓	0.21 ✓	0.056 ✓	0.38 ✓
IX-9 ✓	7 ✓	1 ✓	0.005 ✓	0.064 ✓	0.032 ✓	0.21 ✓
IX-10 ✓	7.5 6.5 ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓
IX-11 ✓	5 ✓	3 ✓	0.6 ✓	0.24 ✓	0.097 ✓	0.5 ✓
IX-12 ✓	9 ✓	2600 ✓	12 ✓	120 ✓	46 ✓	240 ✓
IX-13 ✓	5.5 ✓	21 ✓	0.41 ✓	0.077 ✓	0.19 ✓	0.13 ✓
IX-14 ✓	10 ✓	7 ✓	1 ✓	0.92 ✓	0.2 ✓	0.78 ✓
IX-15 ✓	5 ✓	9 ✓	1.2 ✓	1.2 ✓	0.13 ✓	0.68 ✓
IX-16 ✓	9.5 ✓	780 ✓	3.7 ✓	31 ✓	20 ✓	100 ✓
IX-17 ✓	6 ✓	7 ✓	0.25 ✓	1.2 ✓	0.32 ✓	1.9 ✓
IX-18 ✓	4 ✓	15 ✓	0.18 ✓	0.49 ✓	0.52 ✓	3.1 ✓
IX-19 ✓	8.5 ✓	ND ✓	0.11 ✓	0.01 ✓	0.055 ✓	0.029 ✓
IX-20 ✓	5 ✓	ND ✓	ND ✓	0.006 ✓	ND ✓	0.008 ✓
IX-21 ✓	6 ✓	900 ✓	1.7 ✓	35 ✓	16 ✓	110 ✓
IX-22 ✓	6 ✓	14 ✓	0.26 ✓	0.94 ✓	0.17 ✓	1.5 ✓

1-21
1-5-94
1-20-94
1-21

✓ hits left in place

highest hits:

1,300 TPHd WX-3 3' bgs
970 TOG WX-3 "
2,600 TPHg IX-12 9' bgs
12 benzene IX-12 "

* = see certified analytical reports
NA = analysis not requested
ND = not detected
TPH-gas = Total petroleum hydrocarbons calculated as gasoline
TPH-D = Total petroleum hydrocarbons calculated as diesel
TOG = Total oil and grease

HITS

Table B: Analytical Summary for Hoist & Sump Excavation Samples (in ppm)

Hoist Sampling Results

1-3-94

Sample ID	Depth (FT)	TPH-gas	Benzene	Toluene	Ethyl Benzene	Xylenes	TPH-D	TOG	8010	8270	Metals
H-N ✓	7 ✓	ND	ND	ND	ND	ND	ND	ND	ND ✓	ND ✓	*
H-S ✓	8 ✓	ND	ND	ND	ND	ND	ND	ND	ND ✓	ND ✓	*

Oil-Water Separator Sampling Results

1-3-94

Sample ID	Depth (FT)	TPH-gas	Benzene	Toluene	Ethyl Benzene	Xylenes	TPH-D	TOG	8010	8270	Metals
SM-8 ✓	7 ✓	ND ✓	ND ✓	ND	ND	ND	ND ✓	ND ✓	ND ✓	ND ✓	*
SM-1 ✓	5 ✓	1 ✓	ND ✓	ND	ND	0.012	10 ✓	ND ✓	*	ND ✓	*
SM-2 ✓	5 ✓	ND ✓	ND ✓	ND	ND	ND	3 ✓	ND ✓	ND ✓	ND ✓	*
SM-3 ✓	5 ✓	ND ✓	ND ✓	ND	ND	ND	5 ✓	ND ✓	ND ✓	ND ✓	*

✓ hits left in place

Table C: Analytical Summary for Stockpile Samples (in ppm)

Stockpile Sampling Results

waste oil
1-5-94
1-20
Pump Island

Sample ID	TPH-gas	Benzene	Toluene	Ethyl Benzene	Xylenes	TPH-D	TOG	8010	8270	Metals
SP-2a-d ✓	47 ✓	ND ✓	0.093	0.26	1.9	1200 ✓	2500 ✓	*	ND ✓	*
SP-3a-d ✓	33 ✓	ND ✓	0.065	0.54	0.17	220 ✓	100 ✓	*	ND ✓	*
SP-4a-d ✓	150 ✓	ND ✓	3	3	20	NA	NA	NA	NA	ND
SP-5a-d ✓	1300 ✓	0.8 ✓	30	21	120	NA	NA	NA	NA	NA
SP-6a-d ✓	2600 ✓	1.8 ✓	86	40	230	NA	NA	NA	NA	NA
SP-7a-d ✓	130 ✓	ND ✓	2.2	2.9	20	NA	NA	NA	NA	NA
SP-8a-d ✓	180 ✓	ND ✓	1.4	3.5	27	NA	NA	NA	NA	NA

210X STLC
ND soluble Pb
ND org. Po

Aerated Stockpile Sampling Results

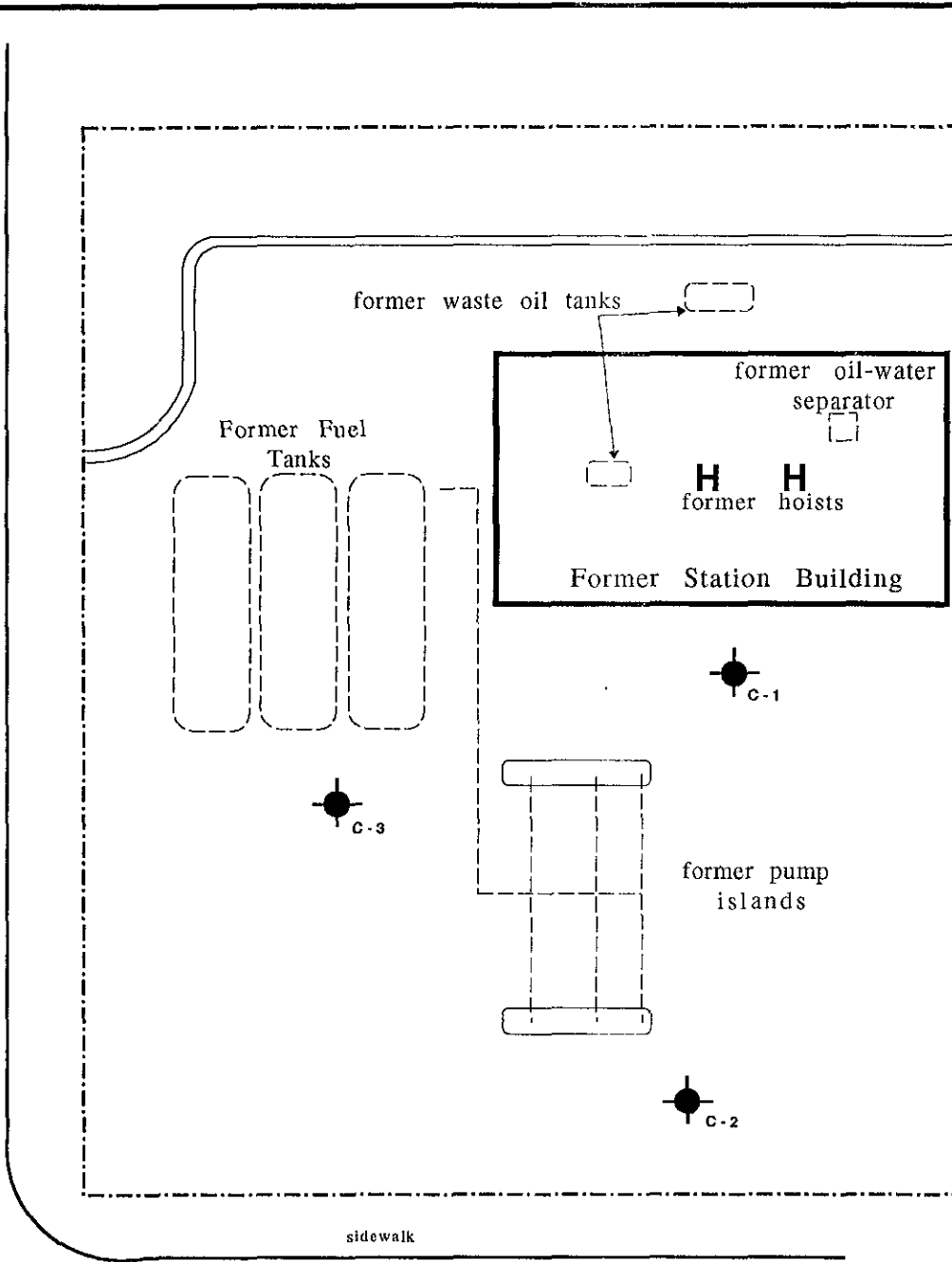
1-19
1-26

Sample ID	TPH-gas	Benzene	Toluene	Ethyl Benzene	Xylenes
SP-4a-d ✓	33 ✓	ND ✓	0.096	0.086	1
SP-5a-d ✓	88 ✓	0.006 ✓	0.19	0.19	2.4
ASP-6a-d ✓	36 ✓	ND ✓	0.11	0.067	0.72
ASP-7a-d ✓	53 ✓	ND ✓	0.059	0.23	1.8
ASP-8a-d ✓	14 ✓	0.29 ✓	0.89	0.27	1.3

* = see certified analytical reports
 NA = analysis not requested
 ND = not detected
 TPH-gas = Total petroleum hydrocarbons calculated as gasoline
 TPH-D = Total petroleum hydrocarbons calculated as diesel
 TOG = Total oil and grease

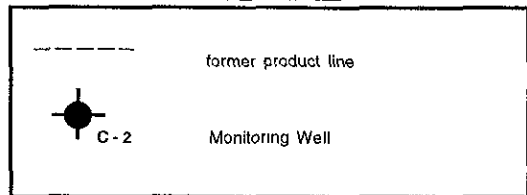
hits

Bellevue Avenue



Grand Avenue

LEGEND



scale 1" = 20'



**Touchstone
Developments**
Environmental Management

Site Plan
460 Grand Avenue
Oakland, California

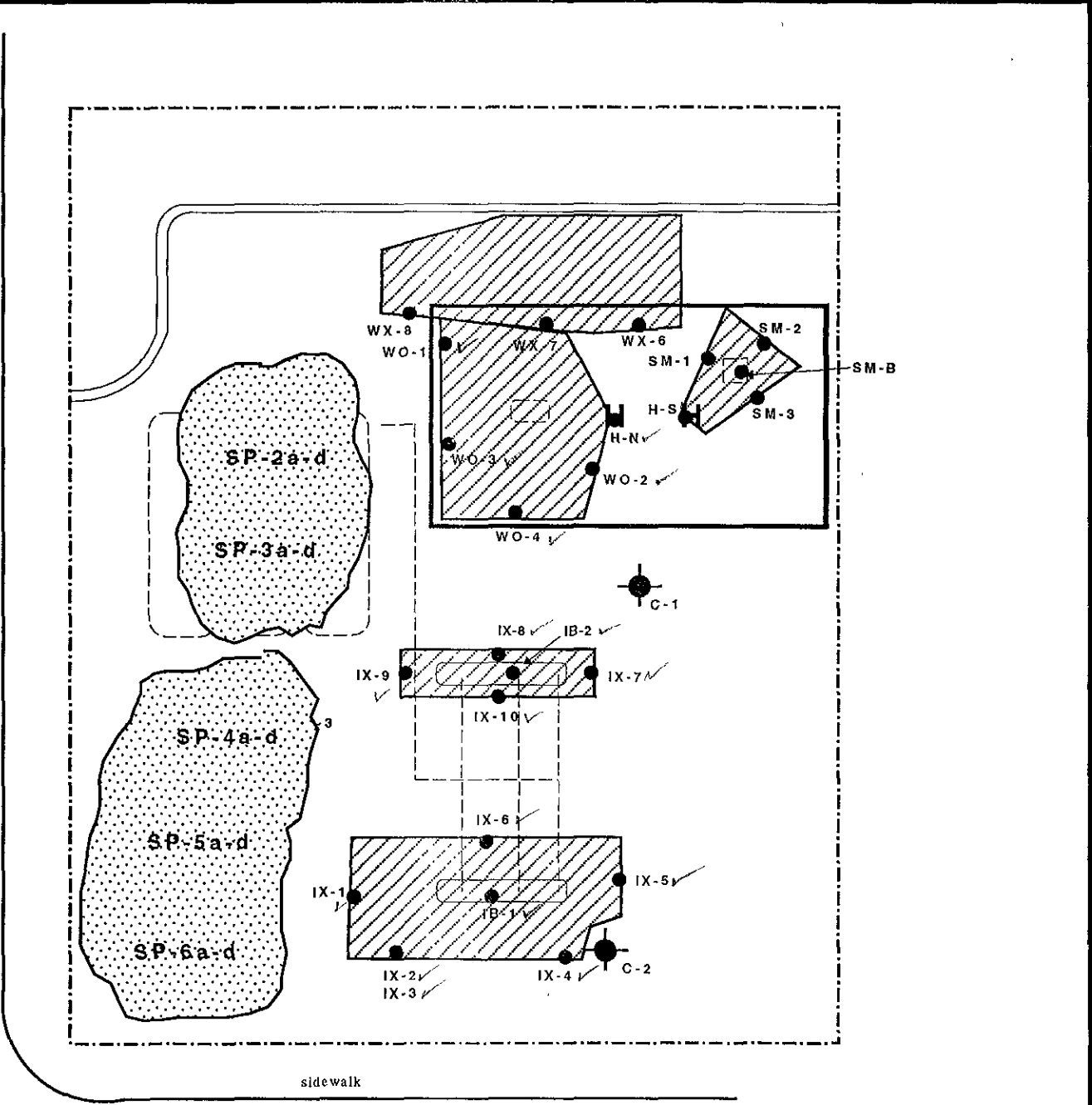
Figure 1

3-13-94

mjt

Project Number 0006-2

Bellevue Avenue



Grand Avenue

sidewalk



scale 1" = 20'

LEGEND

	former product line
	Monitoring Well
	sample location
	excavation limits
	stockpiled soil



**Touchstone
Developments**
Environmental Management

**Excavation & Sampling
in progress**
460 Grand Avenue
Oakland, California

Figure 2

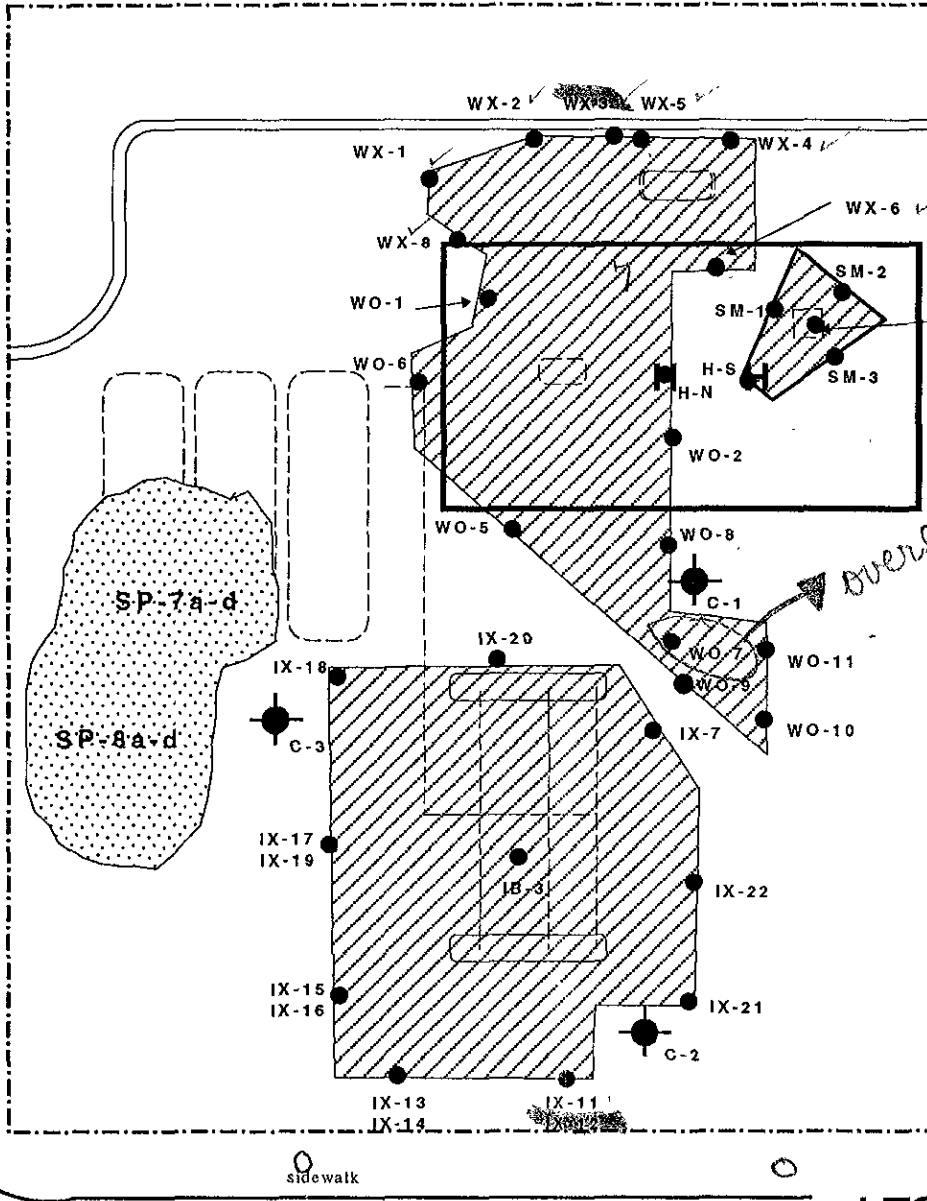
3-13-94

mjt



Project Number 0006-2

final map

Bellevue Avenue








overexposed

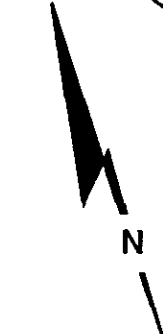
hits left in place
 > 1000 ppm TPHgd
 > 100 ppm TPHgd

future SBs ?

LEGEND

	former product line
	Monitoring Well
	sample location
	excavation limits
	stockpiled soil

scale 1" = 20'



Final Excavation & Sample Locations
 460 Grand Avenue
 Oakland, California

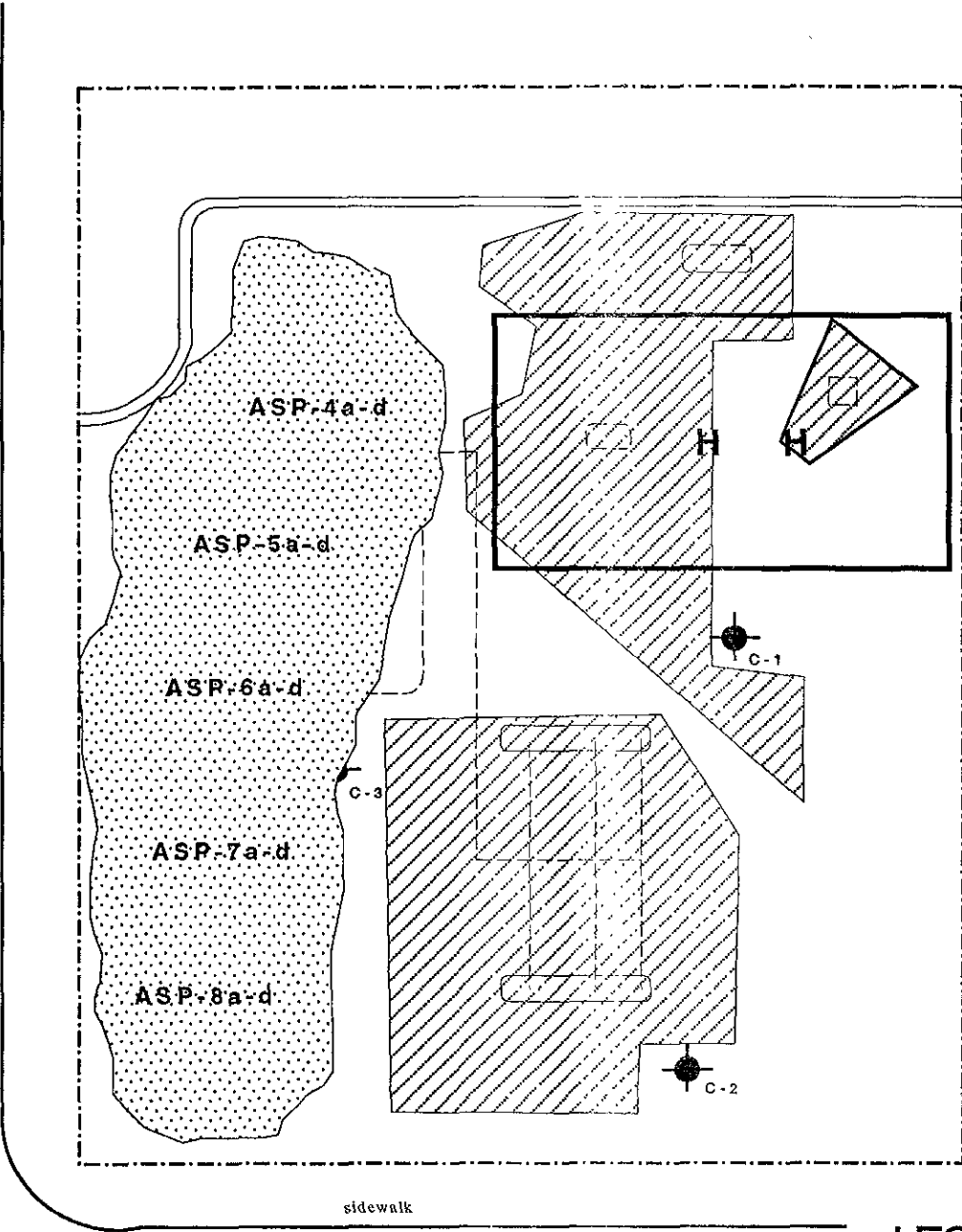
Figure 3

3-13-94

mjt

Project Number 0006-2

Bellevue Avenue



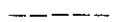



Grand Avenue

sidewalk



scale 1" = 20'

LEGEND

	former product line
	Monitoring Well
	excavation limits
	aerated stockpiled soil



**Aerated Stockpile &
Sample Locations**
460 Grand Avenue
Oakland, California

Figure 4

3-13-94

mjt

Project Number 0006-2

APPENDIX A:

Certified Analytical Reports and Chain-of-Custody forms



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 15078

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WX-1	01/03/94	01/04/94	/ /	01/07/94		1
WX-2	01/03/94	01/04/94	/ /	01/07/94		2
WX-3	01/03/94	01/04/94	/ /	01/07/94		3
WX-4	01/03/94	01/04/94	/ /	01/07/94		4
WX-5	01/03/94	01/04/94	/ /	01/07/94		5
WX-6	01/03/94	01/04/94	/ /	01/10/94		6
WX-7	01/03/94	01/04/94	/ /	01/07/94		7
WX-8	01/03/94	01/04/94	/ /	01/07/94		8
SM-B	01/03/94	01/04/94	/ /	01/07/94		9
SM-1	01/03/94	01/04/94	/ /	01/07/94		10
SM-2	01/03/94	01/04/94	/ /	01/07/94		11
SM-3	01/03/94	01/04/94	/ /	01/07/94		12
H-S	01/03/94	01/04/94	/ /	01/07/94		13
H-N	01/03/94	01/04/94	/ /	01/07/94		14



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
15078- 1	WX-1	Soil
15078- 2	WX-2	Soil
15078- 3	WX-3	Soil
15078- 4	WX-4	Soil
15078- 5	WX-5	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15078- 1 15078- 2 15078- 3 15078- 4 15078- 5

Chloromethane/Vinyl Ch:	ND<10	ND<10	ND<10	ND<10	ND<10
Bromomethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Chloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
Dichloromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
t-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
Chloroform:	ND<5	ND<5	ND<5	ND<5	ND<5
✓ 1,1,1-Trichloroethane:	ND<5	ND<5	42	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Trichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5	ND<5	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
✓ Tetrachloroethene:	ND<5	ND<5	74	ND<5	ND<5
Dibromochloromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5	ND<5	ND<5	ND<5
Bromoform:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5	ND<5	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5	ND<5
✓ 1,2-Dichlorobenzene:	ND<5	ND<5	48	ND<5	ND<5
1,4-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5	ND<5
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
15078- 6	WX-6	Soil
15078- 7	WX-7	Soil
15078- 8	WX-8	Soil
15078- 9	SM-B	Soil
15078-10	SM-1	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15078- 6 15078- 7 15078- 8 15078- 9 15078-10

Chloromethane/Vinyl Ch:	ND<10	ND<10	ND<10	ND<10	ND<10
Bromomethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Chloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
Dichloromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
t-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
Chloroform:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,1-Trichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Trichloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5	ND<5	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Tetrachloroethene:	ND<5	ND<5	ND<5	ND<5	ND<5
Dibromochloromethane:	ND<5	ND<5	ND<5	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5	ND<5	ND<5	ND<5
Bromoform:	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5	ND<5	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5	6
1,4-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5	ND<5
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
15078-11	SM-2	Soil
15078-12	SM-3	Soil
15078-13	H-S	Soil
15078-14	H-N	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078-11	15078-12	15078-13	15078-14
--------------------	----------	----------	----------	----------

Chloromethane/Vinyl Ch:	ND<10	ND<10	ND<10	ND<10
Bromomethane:	ND<5	ND<5	ND<5	ND<5
Chloroethane:	ND<5	ND<5	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
Dichloromethane:	ND<5	ND<5	ND<5	ND<5
t-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
Chloroform:	ND<5	ND<5	ND<5	ND<5
1,1,1-Trichloroethane:	ND<5	ND<5	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5	ND<5	ND<5
1,2-Dichloroethane:	ND<5	ND<5	ND<5	ND<5
Trichloroethene:	ND<5	ND<5	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5	ND<5	ND<5
Tetrachloroethene:	ND<5	ND<5	ND<5	ND<5
Dibromochloromethane:	ND<5	ND<5	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5	ND<5	ND<5
Bromoform:	ND<5	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
1,2-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
1,4-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.
Quality Assurance and Control Data - Soil

Laboratory Number 15078

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Chloromethane/Vinyl Ch:	ND<10	10			
Bromomethane:	ND<5	5			
Chloroethane:	ND<5	5			
Trichlorofluoromethane:	ND<5	5			
1,1-Dichloroethene:	ND<5	5	105/111	65-154	6%
Dichloromethane:	ND<5	5			
t-1,2-Dichloroethene:	ND<5	5			
1,1-Dichloroethane:	ND<5	5			
c-1,2-Dichloroethene:	ND<5	5			
Chloroform:	ND<5	5			
1,1,1-Trichloroethane:	ND<5	5			
Carbon tetrachloride:	ND<5	5			
1,2-Dichloroethane:	ND<5	5			
Trichloroethene:	ND<5	5	96/95	73-161	1%
c-1,3-Dichloropropene:	ND<5	5			
1,2-Dichloropropane:	ND<5	5			
t-1,3-Dichloropropene:	ND<5	5			
Bromodichloromethane:	ND<5	5			
1,1,2-Trichloroethane:	ND<5	5			
Tetrachloroethene:	ND<5	5			
Dibromochloromethane:	ND<5	5			
Chlorobenzene:	ND<5	5	111/109	92-136	2%
Bromoform:	ND<5	5			
1,1,2,2-Tetrachloroeth:	ND<5	5			
1,3-Dichlorobenzene:	ND<5	5			
1,2-Dichlorobenzene:	ND<5	5			
1,4-Dichlorobenzene:	ND<5	5			

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/Kg = Parts per billion (ppb)
 QC File No. 15078

Michael R. Young
 Senior Chemist
 Account Manager



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
1000

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC
by EPA Method SW-846 6010

Chronology Laboratory Number 15078

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WX-1	01/03/94	01/04/94	01/06/94	01/07/94		1
WX-2	01/03/94	01/04/94	01/06/94	01/07/94		2
WX-3	01/03/94	01/04/94	01/06/94	01/07/94		3
WX-4	01/03/94	01/04/94	01/06/94	01/07/94		4
WX-5	01/03/94	01/04/94	01/06/94	01/07/94		5
WX-6	01/03/94	01/04/94	01/06/94	01/07/94		6
WX-7	01/03/94	01/04/94	01/06/94	01/07/94		7
WX-8	01/03/94	01/04/94	01/06/94	01/07/94		8
SM-B	01/03/94	01/04/94	01/06/94	01/07/94		9
SM-1	01/03/94	01/04/94	01/06/94	01/07/94		10
SM-2	01/03/94	01/04/94	01/06/94	01/07/94		11
SM-3	01/03/94	01/04/94	01/06/94	01/07/94		12
H-S	01/03/94	01/04/94	01/06/94	01/07/94		13
H-N	01/03/94	01/04/94	01/06/94	01/07/94		14



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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC

Laboratory Number	Sample Identification	Matrix
15078- 1	WX-1	Soil
15078- 2	WX-2	Soil
15078- 3	WX-3	Soil
15078- 4	WX-4	Soil
15078- 5	WX-5	Soil
15078- 6	WX-6	Soil
15078- 7	WX-7	Soil
15078- 8	WX-8	Soil
15078- 9	SM-B	Soil
15078-10	SM-1	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078- 1	15078- 2	15078- 3	15078- 4	15078- 5
Cadmium (Cd):	ND<0.5	ND<0.5	0.7	ND<0.5	ND<0.5
Chromium (Cr):	20	28	32	23	22
Lead (Pb):	ND<5	ND<5	12	ND<5	ND<5
Nickel (Ni):	28	26	42	25	28
Zinc (Zn):	35	32	55	33	32
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number:	15078- 6	15078- 7	15078- 8	15078- 9	15078-10
Cadmium (Cd):	ND<0.5	0.6	0.6	0.7	ND<0.5
Chromium (Cr):	23	29	37	55	33
Lead (Pb):	ND<5	ND<5	ND<5	7	ND<5
Nickel (Ni):	23	31	45	69	29
Zinc (Zn):	48	38	55	79	40
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

metal hits



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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 11-January-1994

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC

Laboratory Number	Sample Identification	Matrix
15078-11	SM-2	Soil
15078-12	SM-3	Soil
15078-13	H-S	Soil
15078-14	H-N	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078-11	15078-12	15078-13	15078-14
Cadmium (Cd):	ND<0.5	0.9	10.8	0.7
Chromium (Cr):	28	39	58	27
Lead (Pb):	ND<5	7	10	6
Nickel (Ni):	30	36	74	51
Zinc (Zn):	47	53	83	51
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg



Superior Precision Analytical, Inc.

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ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC Quality Assurance and Control Data - Soil

Laboratory Number 15078

Compound		Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Cadmium	(Cd):	ND<0.5	0.5	94/92	75-125	2%
Chromium	(Cr):	ND<5	5	92/93	75-125	1%
Lead	(Pb):	ND<5	5	97/96	75-125	1%
Nickel	(Ni):	ND<5	5	90/88	75-125	2%
Zinc	(Zn):	ND<5	5	97/97	75-125	0%

Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/Kg = Parts per million (ppm)

QC File No. 15078

Senior Chemist
Account Manager



TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 01/09/94
Revised 01/12/94

TOTAL PETROLEUM HYDROCARBONS

Table with 4 columns: Lab #, Sample Identification, Sampled, Analyzed Matrix. Rows 15078-1 to 15078-10.

RESULTS OF ANALYSIS

Laboratory Number: 15078- 1 15078- 2 15078- 3 15078- 4 15078- 5

Table with 6 columns: Analyte, Lab 1, Lab 2, Lab 3, Lab 4, Lab 5. Rows: Gasoline, Benzene, Toluene, Ethyl Benzene, Total Xylenes, Diesel, Oil and Grease.

Concentration: mg/kg mg/kg mg/kg mg/kg mg/kg

Laboratory Number: 15078- 6 15078- 7 15078- 8 15078- 9 15078-10

Table with 6 columns: Analyte, Lab 6, Lab 7, Lab 8, Lab 9, Lab 10. Rows: Gasoline, Benzene, Toluene, Ethyl Benzene, Total Xylenes, Diesel, Oil and Grease.

Concentration: mg/kg mg/kg mg/kg mg/kg mg/kg



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 01/09/94
Revised 01/12/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15078-11	SM-2	01/03/94	01/08/94 Soil
15078-12	SM-3	01/03/94	01/08/94 Soil
15078-13	H-S	01/03/94	01/08/94 Soil
15078-14	H-N	01/03/94	01/08/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 15078-11 15078-12 15078-13 15078-14

	15078-11	15078-12	15078-13	15078-14
Gasoline:	ND<1 ✓	ND<1 ✓	ND<1	ND<1
Benzene:	ND<.005	ND<.005	ND<.005	ND<.005
Toluene:	ND<.005	ND<.005	ND<.005	ND<.005
Ethyl Benzene:	ND<.005	ND<.005	ND<.005	ND<.005
Total Xylenes:	ND<.005	ND<.005	ND<.005	ND<.005
Diesel:	3 ✓	5	ND<1	ND<1
Oil and Grease:	ND<50 ✓	ND<50 ✓	ND<50	ND<50
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg



C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 15078

TPH-mo

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method **5520F**
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	101/89	13%	75-125
Benzene:	82/80	2%	72-125
Toluene:	91/91	0%	75-125
Ethyl Benzene:	90/92	2%	75-125
Total Xylenes:	94/94	0%	75-125
Diesel:	124/124	0%	48-162
Oil and Grease:	84/83	1%	75-125

E+F

Dmy A Nwaga



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Chronology

Laboratory Number 15078

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WX-1	01/03/94	01/04/94	01/04/94	01/06/94		1
WX-2	01/03/94	01/04/94	01/04/94	01/06/94		2
WX-3	01/03/94	01/04/94	01/04/94	01/06/94		3
WX-4	01/03/94	01/04/94	01/04/94	01/06/94		4
WX-5	01/03/94	01/04/94	01/04/94	01/06/94		5
WX-6	01/03/94	01/04/94	01/04/94	01/06/94		6
WX-7	01/03/94	01/04/94	01/04/94	01/05/94		7
WX-8	01/03/94	01/04/94	01/04/94	01/05/94		8
SM-B	01/03/94	01/04/94	01/04/94	01/05/94		9
SM-1	01/03/94	01/04/94	01/04/94	01/05/94		10
SM-2	01/03/94	01/04/94	01/04/94	01/05/94		11
SM-3	01/03/94	01/04/94	01/04/94	01/05/94		12
H-S	01/03/94	01/04/94	01/04/94	01/05/94		13
H-N	01/03/94	01/04/94	01/04/94	01/05/94		14



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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078- 1	WX-1	Soil
15078- 2	WX-2	Soil
15078- 3	WX-3	Soil
15078- 4	WX-4	Soil
15078- 5	WX-5	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15078- 1 15078- 2 15078- 3 15078- 4 15078- 5

bis(2-chloroethyl) ethe:	ND<330	ND<330	ND<3300	ND<330	ND<330
aniline:	ND<330	ND<330	ND<3300	ND<330	ND<330
phenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
2-chlorophenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
1,3-dichlorobenzene:	ND<330	ND<330	ND<3300	ND<330	ND<330
1,4-dichlorobenzene:	ND<330	ND<330	ND<3300	ND<330	ND<330
1,2-dichlorobenzene:	ND<330	ND<330	ND<3300	ND<330	ND<330
benzyl alcohol:	ND<330	ND<330	ND<3300	ND<330	ND<330
bis-(2-chloroisopropyl):	ND<330	ND<330	ND<3300	ND<330	ND<330
2-methylphenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
hexachloroethane:	ND<330	ND<330	ND<3300	ND<330	ND<330
n-nitroso-di-n-propyla:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-methylphenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
nitrobenzene:	ND<330	ND<330	ND<3300	ND<330	ND<330
isophorone:	ND<330	ND<330	ND<3300	ND<330	ND<330
2-nitrophenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
2,4-dimethylphenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
bis(2-chloroethoxy)met:	ND<330	ND<330	ND<3300	ND<330	ND<330
2,4-dichlorophenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
1,2,4-trichlorobenzene:	ND<330	ND<330	ND<3300	ND<330	ND<330
naphthalene:	ND<330	ND<330	3600	ND<330	ND<330
benzoic acid:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-chloroaniline:	ND<330	ND<330	ND<3300	ND<330	ND<330
hexachlorobutadiene:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-chloro-3-methylpheno:	ND<330	ND<330	ND<3300	ND<330	ND<330
2-methyl-naphthalene:	ND<330	ND<330	5200	ND<330	ND<330
hexaoclorocyclopentadie:	ND<330	ND<330	ND<3300	ND<330	ND<330
2,4,6-trichlorophenol:	ND<330	ND<330	ND<3300	ND<330	ND<330
2,4,5-trichlorophenol:	ND<800	ND<800	ND<8000	ND<800	ND<800

Concentration: ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078- 1	WX-1	Soil
15078- 2	WX-2	Soil
15078- 3	WX-3	Soil
15078- 4	WX-4	Soil
15078- 5	WX-5	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078- 1	15078- 2	15078- 3	15078- 4	15078- 5
2-chloronaphthalene:	ND<330	ND<330	ND<3300	ND<330	ND<330
2-nitroaniline:	ND<800	ND<800	ND<8000	ND<800	ND<800
acenaphthylene:	ND<330	ND<330	ND<3300	ND<330	ND<330
dimethylphthlate:	ND<330	ND<330	ND<3300	ND<330	ND<330
2,6-dinitrotoluene:	ND<330	ND<330	ND<3300	ND<330	ND<330
acenaphthene:	ND<330	ND<330	ND<3300	ND<330	ND<330
3-nitroaniline:	ND<800	ND<800	ND<8000	ND<800	ND<800
2,4-dinitrophenol:	ND<800	ND<800	ND<8000	ND<800	ND<800
dibenzofuran:	ND<330	ND<330	ND<3300	ND<330	ND<330
2,4-dinitrotoluene:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-nitrophenol:	ND<800	ND<800	ND<8000	ND<800	ND<800
fluorene:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-chlorophenyl-phenyle:	ND<330	ND<330	ND<3300	ND<330	ND<330
diethylphthlate:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-nitroaniline:	ND<800	ND<800	ND<8000	ND<800	ND<800
4,6-dinitro-2-methylph:	ND<800	ND<800	ND<8000	ND<800	ND<800
n-nitrosodiphenylamine:	ND<330	ND<330	ND<3300	ND<330	ND<330
4-bromo-phenyl-phenyle:	ND<330	ND<330	ND<3300	ND<330	ND<330
hexachlorobenzene:	ND<330	ND<330	ND<3300	ND<330	ND<330
pentachlorophenol:	ND<800	ND<800	ND<8000	ND<800	ND<800
phenanthrene:	ND<330	ND<330	ND<3300	ND<330	ND<330
anthracene:	ND<330	ND<330	ND<3300	ND<330	ND<330
di-n-butylphthlate:	ND<330	ND<330	ND<3300	ND<330	ND<330
fluoranthene:	ND<330	ND<330	ND<3300	ND<330	ND<330
benzidine:	ND<1700	ND<1700	ND<17000	ND<1700	ND<1700
pyrene:	ND<330	ND<330	ND<3300	ND<330	ND<330
butylbenzylphthlate:	ND<330	ND<330	ND<3300	ND<330	ND<330
3,3'-dichlorobenzidine:	ND<660	ND<660	ND<6600	ND<660	ND<660
benzo[a]anthracene:	ND<330	ND<330	ND<3300	ND<330	ND<330
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078- 1	WX-1	Soil
15078- 2	WX-2	Soil
15078- 3	WX-3	Soil
15078- 4	WX-4	Soil
15078- 5	WX-5	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078- 1	15078- 2	15078- 3	15078- 4	15078- 5
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chrysene:	ND<330	ND<330	ND<3300	ND<330	ND<330
bis(2-ethylhexyl) phtha:	ND<330	ND<330	ND<3300	ND<330	ND<330
di-n-octylphthalate:	ND<330	ND<330	ND<3300	ND<330	ND<330
benzo(b,k) fluoranthene:	ND<330	ND<330	ND<3300	ND<330	ND<330
benzo[a]pyrene:	ND<330	ND<330	ND<3300	ND<330	ND<330
indeno[1,2,3-cd]pyrene:	ND<330	ND<330	ND<3300	ND<330	ND<330
dibenzo[a,h]anthracene:	ND<330	ND<330	ND<3300	ND<330	ND<330
benzo[g,h,i]anthracene:	ND<330	ND<330	ND<3300	ND<330	ND<330

Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
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-- Surrogate % Recoveries --

2-fluorophenol:	61	63	79	54	68
phenol-d6:	69	68	89	62	78
nitrobenzene-d5:	60	62	84	53	72
2-fluorobiphenyl:	63	63	77	55	75
2,4,6-tribromophenol:	85	83	99	78	104
terphenyl-d14:	68	68	79	54	76



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Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078- 6	WX-6	Soil
15078- 7	WX-7	Soil
15078- 8	WX-8	Soil
15078- 9	SM-B	Soil
15078-10	SM-1	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15078- 6 15078- 7 15078- 8 15078- 9 15078-10

bis(2-chloroethyl)ethane:	ND<330	ND<330	ND<330	ND<330	ND<330
aniline:	ND<330	ND<330	ND<330	ND<330	ND<330
phenol:	ND<330	ND<330	ND<330	ND<330	ND<330
2-chlorophenol:	ND<330	ND<330	ND<330	ND<330	ND<330
1,3-dichlorobenzene:	ND<330	ND<330	ND<330	ND<330	ND<330
1,4-dichlorobenzene:	ND<330	ND<330	ND<330	ND<330	ND<330
1,2-dichlorobenzene:	ND<330	ND<330	ND<330	ND<330	ND<330
benzyl alcohol:	ND<330	ND<330	ND<330	ND<330	ND<330
bis-(2-chloroisopropyl):	ND<330	ND<330	ND<330	ND<330	ND<330
2-methylphenol:	ND<330	ND<330	ND<330	ND<330	ND<330
hexachloroethane:	ND<330	ND<330	ND<330	ND<330	ND<330
n-nitroso-di-n-propylamine:	ND<330	ND<330	ND<330	ND<330	ND<330
4-methylphenol:	ND<330	ND<330	ND<330	ND<330	ND<330
nitrobenzene:	ND<330	ND<330	ND<330	ND<330	ND<330
isophorone:	ND<330	ND<330	ND<330	ND<330	ND<330
2-nitrophenol:	ND<330	ND<330	ND<330	ND<330	ND<330
2,4-dimethylphenol:	ND<330	ND<330	ND<330	ND<330	ND<330
bis(2-chloroethoxy)methane:	ND<330	ND<330	ND<330	ND<330	ND<330
2,4-dichlorophenol:	ND<330	ND<330	ND<330	ND<330	ND<330
1,2,4-trichlorobenzene:	ND<330	ND<330	ND<330	ND<330	ND<330
naphthalene:	ND<330	ND<330	ND<330	ND<330	ND<330
benzoic acid:	ND<330	ND<330	ND<330	ND<330	ND<330
4-chloroaniline:	ND<330	ND<330	ND<330	ND<330	ND<330
hexachlorobutadiene:	ND<330	ND<330	ND<330	ND<330	ND<330
4-chloro-3-methylphenol:	ND<330	ND<330	ND<330	ND<330	ND<330
2-methyl-naphthalene:	ND<330	ND<330	ND<330	ND<330	ND<330
hexachlorocyclopentadiene:	ND<330	ND<330	ND<330	ND<330	ND<330
2,4,6-trichlorophenol:	ND<330	ND<330	ND<330	ND<330	ND<330
2,4,5-trichlorophenol:	ND<800	ND<800	ND<800	ND<800	ND<800

Concentration: ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg



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Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078- 6	WX-6	Soil
15078- 7	WX-7	Soil
15078- 8	WX-8	Soil
15078- 9	SM-B	Soil
15078-10	SM-1	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078- 6	15078- 7	15078- 8	15078- 9	15078-10
2-chloronaphthalene:	ND<330	ND<330	ND<330	ND<330	ND<330
2-nitroaniline:	ND<800	ND<800	ND<800	ND<800	ND<800
acenaphthylene:	ND<330	ND<330	ND<330	ND<330	ND<330
dimethylphthlate:	ND<330	ND<330	ND<330	ND<330	ND<330
2,6-dinitrotoluene:	ND<330	ND<330	ND<330	ND<330	ND<330
acenaphthene:	ND<330	ND<330	ND<330	ND<330	ND<330
3-nitroaniline:	ND<800	ND<800	ND<800	ND<800	ND<800
2,4-dinitrophenol:	ND<800	ND<800	ND<800	ND<800	ND<800
dibenzofuran:	ND<330	ND<330	ND<330	ND<330	ND<330
2,4-dinitrotoluene:	ND<330	ND<330	ND<330	ND<330	ND<330
4-nitrophenol:	ND<800	ND<800	ND<800	ND<800	ND<800
fluorene:	ND<330	ND<330	ND<330	ND<330	ND<330
4-chlorophenyl-phenyle:	ND<330	ND<330	ND<330	ND<330	ND<330
diethylphthlate:	ND<330	ND<330	ND<330	ND<330	ND<330
4-nitroaniline:	ND<800	ND<800	ND<800	ND<800	ND<800
4,6-dinitro-2-methylph:	ND<800	ND<800	ND<800	ND<800	ND<800
n-nitrosodiphenylamine:	ND<330	ND<330	ND<330	ND<330	ND<330
4-bromo-phenyl-phenyle:	ND<330	ND<330	ND<330	ND<330	ND<330
hexachlorobenzene:	ND<330	ND<330	ND<330	ND<330	ND<330
pentachlorophenol:	ND<800	ND<800	ND<800	ND<800	ND<800
phenanthrene:	ND<330	ND<330	ND<330	ND<330	ND<330
anthracene:	ND<330	ND<330	ND<330	ND<330	ND<330
di-n-butylphthlate:	ND<330	ND<330	ND<330	ND<330	ND<330
fluoranthene:	ND<330	ND<330	ND<330	ND<330	ND<330
benzidine:	ND<1700	ND<1700	ND<1700	ND<1700	ND<1700
pyrene:	ND<330	ND<330	ND<330	ND<330	ND<330
butylbenzylphthlate:	ND<330	ND<330	ND<330	ND<330	ND<330
3,3'-dichlorobenzidine:	ND<660	ND<660	ND<660	ND<660	ND<660
benzo[a]anthracene:	ND<330	ND<330	ND<330	ND<330	ND<330

Concentration: ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg



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Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078- 6	WX-6	Soil
15078- 7	WX-7	Soil
15078- 8	WX-8	Soil
15078- 9	SM-B	Soil
15078-10	SM-1	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078- 6	15078- 7	15078- 8	15078- 9	15078-10
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chrysene:	ND<330	ND<330	ND<330	ND<330	ND<330
bis(2-ethylhexyl) phtha:	ND<330	ND<330	ND<330	ND<330	ND<330
di-n-octylphthalate:	ND<330	ND<330	ND<330	ND<330	ND<330
benzo(b,k) fluoranthene:	ND<330	ND<330	ND<330	ND<330	ND<330
benzo[a]pyrene:	ND<330	ND<330	ND<330	ND<330	ND<330
indeno[1,2,3-cd]pyrene:	ND<330	ND<330	ND<330	ND<330	ND<330
dibenzo[a,h]anthracene:	ND<330	ND<330	ND<330	ND<330	ND<330
benzo[g,h,i]anthracene:	ND<330	ND<330	ND<330	ND<330	ND<330

Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
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-- Surrogate & Recoveries --

2-fluorophenol:	53	54	54	60	54
phenol-d6:	60	63	62	67	62
nitrobenzene-d5:	56	55	55	65	59
2-fluorobiphenyl:	57	60	61	66	59
2,4,6-tribromophenol:	74	81	81	83	76
terphenyl-d14:	64	70	68	73	62



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078-11	SM-2	Soil
15078-12	SM-3	Soil
15078-13	H-S	Soil
15078-14	H-N	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078-11	15078-12	15078-13	15078-14
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bis(2-chloroethyl)ethane:	ND<330	ND<330	ND<330	ND<330
aniline:	ND<330	ND<330	ND<330	ND<330
phenol:	ND<330	ND<330	ND<330	ND<330
2-chlorophenol:	ND<330	ND<330	ND<330	ND<330
1,3-dichlorobenzene:	ND<330	ND<330	ND<330	ND<330
1,4-dichlorobenzene:	ND<330	ND<330	ND<330	ND<330
1,2-dichlorobenzene:	ND<330	ND<330	ND<330	ND<330
benzyl alcohol:	ND<330	ND<330	ND<330	ND<330
bis-(2-chloroisopropyl):	ND<330	ND<330	ND<330	ND<330
2-methylphenol:	ND<330	ND<330	ND<330	ND<330
hexachloroethane:	ND<330	ND<330	ND<330	ND<330
n-nitroso-di-n-propylamine:	ND<330	ND<330	ND<330	ND<330
4-methylphenol:	ND<330	ND<330	ND<330	ND<330
nitrobenzene:	ND<330	ND<330	ND<330	ND<330
isophorone:	ND<330	ND<330	ND<330	ND<330
2-nitrophenol:	ND<330	ND<330	ND<330	ND<330
2,4-dimethylphenol:	ND<330	ND<330	ND<330	ND<330
bis(2-chloroethoxy)methane:	ND<330	ND<330	ND<330	ND<330
2,4-dichlorophenol:	ND<330	ND<330	ND<330	ND<330
1,2,4-trichlorobenzene:	ND<330	ND<330	ND<330	ND<330
naphthalene:	ND<330	ND<330	ND<330	ND<330
benzoic acid:	ND<330	ND<330	ND<330	ND<330
4-chloroaniline:	ND<330	ND<330	ND<330	ND<330
hexachlorobutadiene:	ND<330	ND<330	ND<330	ND<330
4-chloro-3-methylphenol:	ND<330	ND<330	ND<330	ND<330
2-methyl-naphthalene:	ND<330	ND<330	ND<330	ND<330
hexachlorocyclopentadiene:	ND<330	ND<330	ND<330	ND<330
2,4,6-trichlorophenol:	ND<330	ND<330	ND<330	ND<330
2,4,5-trichlorophenol:	ND<800	ND<800	ND<800	ND<800

Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg
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Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078-11	SM-2	Soil
15078-12	SM-3	Soil
15078-13	H-S	Soil
15078-14	H-N	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078-11	15078-12	15078-13	15078-14
2-chloronaphthalene:	ND<330	ND<330	ND<330	ND<330
2-nitroaniline:	ND<800	ND<800	ND<800	ND<800
acenaphthylene:	ND<330	ND<330	ND<330	ND<330
dimethylphthlate:	ND<330	ND<330	ND<330	ND<330
2,6-dinitrotoluene:	ND<330	ND<330	ND<330	ND<330
acenaphthene:	ND<330	ND<330	ND<330	ND<330
3-nitroaniline:	ND<800	ND<800	ND<800	ND<800
2,4-dinitrophenol:	ND<800	ND<800	ND<800	ND<800
dibenzofuran:	ND<330	ND<330	ND<330	ND<330
2,4-dinitrotoluene:	ND<330	ND<330	ND<330	ND<330
4-nitrophenol:	ND<800	ND<800	ND<800	ND<800
fluorene:	ND<330	ND<330	ND<330	ND<330
4-chlorophenyl-phenyle:	ND<330	ND<330	ND<330	ND<330
diethylphthlate:	ND<330	ND<330	ND<330	ND<330
4-nitroaniline:	ND<800	ND<800	ND<800	ND<800
4,6-dinitro-2-methylph:	ND<800	ND<800	ND<800	ND<800
n-nitrosodiphenylamine:	ND<330	ND<330	ND<330	ND<330
4-bromo-phenyl-phenyle:	ND<330	ND<330	ND<330	ND<330
hexachlorobenzene:	ND<330	ND<330	ND<330	ND<330
pentachlorophenol:	ND<800	ND<800	ND<800	ND<800
phenanthrene:	ND<330	ND<330	ND<330	ND<330
anthracene:	ND<330	ND<330	ND<330	ND<330
di-n-butylphthlate:	ND<330	ND<330	ND<330	ND<330
fluoranthene:	ND<330	ND<330	ND<330	ND<330
benzidine:	ND<1700	ND<1700	ND<1700	ND<1700
pyrene:	ND<330	ND<330	ND<330	ND<330
butylbenzylphthlate:	ND<330	ND<330	ND<330	ND<330
3,3'-dichlorobenzidine:	ND<660	ND<660	ND<660	ND<660
benzo[a]anthracene:	ND<330	ND<330	ND<330	ND<330
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15078-11	SM-2	Soil
15078-12	SM-3	Soil
15078-13	H-S	Soil
15078-14	H-N	Soil

RESULTS OF ANALYSIS

Laboratory Number:	15078-11	15078-12	15078-13	15078-14
chrysene:	ND<330	ND<330	ND<330	ND<330
bis(2-ethylhexyl)phtha:	ND<330	ND<330	ND<330	ND<330
di-n-octylphthalate:	ND<330	ND<330	ND<330	ND<330
benzo(b,k)fluoranthene:	ND<330	ND<330	ND<330	ND<330
benzo[a]pyrene:	ND<330	ND<330	ND<330	ND<330
indeno[1,2,3-cd]pyrene:	ND<330	ND<330	ND<330	ND<330
dibenzo[a,h]anthracene:	ND<330	ND<330	ND<330	ND<330
benzo[g,h,i]anthracene:	ND<330	ND<330	ND<330	ND<330
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg
-- Surrogate % Recoveries --				
2-fluorophenol:	65	63	64	63
phenol-d6:	73	69	70	70
nitrobenzene-d5:	70	68	65	66
2-fluorobiphenyl:	70	68	65	68
2,4,6-tribromophenol:	85	84	73	90
terphenyl-d14:	75	77	71	72



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 15078

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
bis(2-chloroethyl) ethe:	ND<330	330			
aniline:	ND<330	330			
phenol:	ND<330	330	74/74	18-113	0%
2-chlorophenol:	ND<330	330	81/82	11-120	1%
1,3-dichlorobenzene:	ND<330	330			
1,4-dichlorobenzene:	ND<330	330	78/79	1-154	1%
1,2-dichlorobenzene:	ND<330	330			
benzyl alcohol:	ND<330	330			
bis-(2-chloroisopropyl):	ND<330	330			
2-methylphenol:	ND<330	330			
hexachloroethane:	ND<330	330			
n-nitroso-di-n-propyla:	ND<330	330	92/94	11-133	2%
4-methylphenol:	ND<330	330			
nitrobenzene:	ND<330	330			
isophorone:	ND<330	330			
2-nitrophenol:	ND<330	330			
2,4-dimethylphenol:	ND<330	330			
bis(2-chloroethoxy)met:	ND<330	330			
2,4-dichlorophenol:	ND<330	330			
1,2,4-trichlorobenzene:	ND<330	330	75/76	1-139	1%
naphthalene:	ND<330	330			
benzoic acid:	ND<330	330			
4-chloroaniline:	ND<330	330			
hexachlorobutadiene:	ND<330	330			
4-chloro-3-methylpheno:	ND<330	330	79/81	11-122	3%
2-methyl-naphthalene:	ND<330	330			
hexachlorocyclopentadie:	ND<330	330			
2,4,6-trichlorophenol:	ND<330	330			
2,4,5-trichlorophenol:	ND<800	800			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 15078

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
2-chloronaphthalene:	ND<330	330			
2-nitroaniline:	ND<800	800			
acenaphthylene:	ND<330	330			
dimethylphthlate:	ND<330	330			
2,6-dinitrotoluene:	ND<330	330			
acenaphthene:	ND<330	330	86/87	20-131	1%
3-nitroaniline:	ND<800	800			
2,4-dinitrophenol:	ND<800	800			
dibenzofuran:	ND<330	330			
2,4-dinitrotoluene:	ND<330	330	76/79	7-111	4%
4-nitrophenol:	ND<800	800	85/92	1-118	8%
fluorene:	ND<330	330			
4-chlorophenyl-phenyle:	ND<330	330			
diethylphthlate:	ND<330	330			
4-nitroaniline:	ND<800	800			
4,6-dinitro-2-methylph:	ND<800	800			
n-nitrosodiphenylamine:	ND<330	330			
4-bromo-phenyl-phenyle:	ND<330	330			
hexachlorobenzene:	ND<330	330			
pentachlorophenol:	ND<800	800	96/97	1-119	1%
phenanthrene:	ND<330	330			
anthracene:	ND<330	330			
di-n-butylphthlate:	ND<330	330			
fluoranthene:	ND<330	330			
benzidine:	ND<1700	1700			
pyrene:	ND<330	330	86/83	20-156	4%
butylbenzylphthlate:	ND<330	330			
3,3'-dichlorobenzidine:	ND<660	660			
benzo[a]anthracene:	ND<330	330			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 15078

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
chrysene:	ND<330	330			
bis(2-ethylhexyl) phtha:	ND<330	330			
di-n-octylphthalate:	ND<330	330			
benzo(b,k) fluoranthene:	ND<330	330			
benzo[a]pyrene:	ND<330	330			
indeno[1,2,3-cd]pyrene:	ND<330	330			
dibenzo[a,h]anthracene:	ND<330	330			
benzo[g,h,i]anthracene:	ND<330	330			
2-fluorophenol:	68			25-121	
phenol-d6:	75			24-113	
nitrobenzene-d5:	67			23-120	
2-fluorobiphenyl:	70			30-115	
2,4,6-tribromophenol:	89			19-122	
terphenyl-d14:	77			18-137	

Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- ug/Kg = Parts per billion (ppb)
- QC File No. 15078

Quynh A. Nwogu
 Senior Chemist
 Account Manager

15078

Yes 842 8252

Fax copy of Lab Report and COC to Chevron Contact: No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 0006
Facility Address 460 Grand Ave. Oakland
Consultant Project Number 0006-1
Consultant Name Truckstop Development
Address PO Box 2554 Santa Rosa
Project Contact (Name) Jeff Monroe
(Phone) 70538818 (Fax Number) 5385812

Chevron Contact (Name) Mark Miller
(Phone) 510 842 8134
Laboratory Name Superior
Laboratory Release Number 8499660
Samples Collected by (Name) Jeff Monroe
Collection Date 1-3-94
Signature Jeff Monroe

Sample Number	Lab Sample Number	Number of Containers	Matrix			Type	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks
			S = Soil	A = Air	W = Water					C = Charcoal	G = Grab	C = Composite	D = Discrete	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Greases (8020)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	
WX-1		1	S		D			Yes	X	X	X	X	X	X	X	X	X	Normal T.A.T.		
WX-2																				
WX-3																				
WX-4																				
WX-5																				
WX-6																				
WX-7																				
WX-8																				
SM-B																				
SM-1																				
SM-2																				
SM-3																				
H-S																				
H-N																				

Please Initial:

Samples Stored in ice

Appropriate containers

Samples

VOA's without

Comments: _____

5 Day
T.A.T.

Relinquished By (Signature) <u>Jeff Monroe</u>	Organization <u>TD</u>	Date/Time <u>12:25 1-4-94</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. <u>5 Days</u> 10 Days As Contracted
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Quang</u>	Organization _____	Date/Time <u>1/4/94 12:25</u>	

800-5-DWG/OS 81/MSH



Superior Precision Analytical, Inc.

1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 12-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Chronology

Laboratory Number 30184

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WO-1	01/05/94	01/05/94	01/11/94	01/11/94		13
WO-2	01/05/94	01/05/94	01/11/94	01/12/94		14
WO-3	01/05/94	01/05/94	01/11/94	01/12/94		15
WO-4	01/05/94	01/05/94	01/11/94	01/12/94		16



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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 12-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
30184-13	WO-1	Soil
30184-14	WO-2	Soil
30184-15	WO-3	Soil
30184-16	WO-4	Soil

RESULTS OF ANALYSIS

Laboratory Number:	30184-13	30184-14	30184-15	30184-16
bis(2-chloroethyl)ethane:	ND<330	ND<330	ND<3300	ND<3300
aniline:	ND<330	ND<330	ND<3300	ND<3300
phenol:	ND<330	ND<330	ND<3300	ND<3300
2-chlorophenol:	ND<330	ND<330	ND<3300	ND<3300
1,3-dichlorobenzene:	ND<330	ND<330	ND<3300	ND<3300
1,4-dichlorobenzene:	ND<330	ND<330	ND<3300	ND<3300
1,2-dichlorobenzene:	ND<330	ND<330	ND<3300	ND<3300
benzyl alcohol:	ND<330	ND<330	ND<3300	ND<3300
bis-(2-chloroisopropyl):	ND<330	ND<330	ND<3300	ND<3300
2-methylphenol:	ND<330	ND<330	ND<3300	ND<3300
hexachloroethane:	ND<330	ND<330	ND<3300	ND<3300
n-nitroso-di-n-propylamine:	ND<330	ND<330	ND<3300	ND<3300
4-methylphenol:	ND<330	ND<330	ND<3300	ND<3300
nitrobenzene:	ND<330	ND<330	ND<3300	ND<3300
isophorone:	ND<330	ND<330	ND<3300	ND<3300
2-nitrophenol:	ND<330	ND<330	ND<3300	ND<3300
2,4-dimethylphenol:	ND<330	ND<330	ND<3300	ND<3300
bis(2-chloroethoxy)methane:	ND<330	ND<330	ND<3300	ND<3300
2,4-dichlorophenol:	ND<330	ND<330	ND<3300	ND<3300
1,2,4-trichlorobenzene:	ND<330	ND<330	ND<3300	ND<3300
naphthalene:	ND<330	ND<330	ND<3300	ND<3300
benzoic acid:	ND<330	ND<330	ND<3300	ND<3300
4-chloroaniline:	ND<330	ND<330	ND<3300	ND<3300
hexachlorobutadiene:	ND<330	ND<330	ND<3300	ND<3300
4-chloro-3-methylphenol:	ND<330	ND<330	ND<3300	ND<3300
2-methyl-naphthalene:	ND<330	ND<330	ND<3300	ND<3300
hexachlorocyclopentadiene:	ND<330	ND<330	ND<3300	ND<3300
2,4,6-trichlorophenol:	ND<330	ND<330	ND<3300	ND<3300
2,4,5-trichlorophenol:	ND<800	ND<800	ND<8000	ND<8000
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 12-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
30184-13	WO-1	Soil
30184-14	WO-2	Soil
30184-15	WO-3	Soil
30184-16	WO-4	Soil

RESULTS OF ANALYSIS

Laboratory Number:	30184-13	30184-14	30184-15	30184-16
--------------------	----------	----------	----------	----------

2-chloronaphthalene:	ND<330	ND<330	ND<3300	ND<3300
2-nitroaniline:	ND<800	ND<800	ND<8000	ND<8000
acenaphthylene:	ND<330	ND<330	ND<3300	ND<3300
dimethylphthlate:	ND<330	ND<330	ND<3300	ND<3300
2,6-dinitrotoluene:	ND<330	ND<330	ND<3300	ND<3300
acenaphthene:	ND<330	ND<330	ND<3300	ND<3300
3-nitroaniline:	ND<800	ND<800	ND<8000	ND<8000
2,4-dinitrophenol:	ND<800	ND<800	ND<8000	ND<8000
dibenzofuran:	ND<330	ND<330	ND<3300	ND<3300
2,4-dinitrotoluene:	ND<330	ND<330	ND<3300	ND<3300
4-nitrophenol:	ND<800	ND<800	ND<8000	ND<8000
fluorene:	ND<330	ND<330	ND<3300	ND<3300
4-chlorophenyl-phenyle:	ND<330	ND<330	ND<3300	ND<3300
diethylphthlate:	ND<330	ND<330	ND<3300	ND<3300
4-nitroaniline:	ND<800	ND<800	ND<8000	ND<8000
4,6-dinitro-2-methylph:	ND<800	ND<800	ND<8000	ND<8000
n-nitrosodiphenylamine:	ND<330	ND<330	ND<3300	ND<3300
4-bromo-phenyl-phenyle:	ND<330	ND<330	ND<3300	ND<3300
hexachlorobenzene:	ND<330	ND<330	ND<3300	ND<3300
pentachlorophenol:	ND<800	ND<800	ND<8000	ND<8000
phenanthrene:	ND<330	ND<330	ND<3300	ND<3300
anthracene:	ND<330	ND<330	ND<3300	ND<3300
di-n-butylphthlate:	ND<330	ND<330	ND<3300	ND<3300
fluoranthene:	ND<330	ND<330	ND<3300	ND<3300
benzidine:	ND<1700	ND<1700	ND<17000	ND<17000
pyrene:	ND<330	ND<330	ND<3300	ND<3300
butylbenzylphthlate:	ND<330	ND<330	ND<3300	ND<3300
3,3'-dichlorobenzidine:	ND<660	ND<660	ND<6600	ND<6600
benzo[a]anthracene:	ND<330	ND<330	ND<3300	ND<3300

Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg
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Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 12-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
30184-13	WO-1	Soil
30184-14	WO-2	Soil
30184-15	WO-3	Soil
30184-16	WO-4	Soil

RESULTS OF ANALYSIS

Laboratory Number:	30184-13	30184-14	30184-15	30184-16
--------------------	----------	----------	----------	----------

chrysene:	ND<330	ND<330	ND<3300	ND<3300
bis(2-ethylhexyl)phtha:	ND<330	ND<330	ND<3300	ND<3300
di-n-octylphthalate:	ND<330	ND<330	ND<3300	ND<3300
benzo(b,k)fluoranthene:	ND<330	ND<330	ND<3300	ND<3300
benzo[a]pyrene:	ND<330	ND<330	ND<3300	ND<3300
indeno[1,2,3-cd]pyrene:	ND<330	ND<330	ND<3300	ND<3300
dibenzo[a,h]anthracene:	ND<330	ND<330	ND<3300	ND<3300
benzo[g,h,i]anthracene:	ND<330	ND<330	ND<3300	ND<3300

Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg
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-- Surrogate % Recoveries --

2-fluorophenol:	75	68	101	82
phenol-d6:	84	75	105	92
nitrobenzene-d5:	74	66	106	87
2-fluorobiphenyl:	74	64	103	83
2,4,6-tribromophenol:	99	88	117	117
terphenyl-d14:	83	74	98	79



EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS
Quality Assurance and Control Data - Soil

Laboratory Number 30184

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
bis(2-chloroethyl) ethe:	ND<330	330			
aniline:	ND<330	330			
phenol:	ND<330	330	77/76	26-90	1%
2-chlorophenol:	ND<330	330	83/82	11-120	1%
1,3-dichlorobenzene:	ND<330	330			
1,4-dichlorobenzene:	ND<330	330	75/74	1-154	1%
1,2-dichlorobenzene:	ND<330	330			
benzyl alcohol:	ND<330	330			
bis-(2-chloroisopropyl):	ND<330	330			
2-methylphenol:	ND<330	330			
hexachloroethane:	ND<330	330			
n-nitroso-di-n-propyla:	ND<330	330	97/95	11-133	2%
4-methylphenol:	ND<330	330			
nitrobenzene:	ND<330	330			
isophorone:	ND<330	330			
2-nitrophenol:	ND<330	330			
2,4-dimethylphenol:	ND<330	330			
bis(2-chloroethoxy)met:	ND<330	330			
2,4-dichlorophenol:	ND<330	330			
1,2,4-trichlorobenzene:	ND<330	330	69/69	1-139	0%
naphthalene:	ND<330	330			
benzoic acid:	ND<330	330			
4-chloroaniline:	ND<330	330			
hexachlorobutadiene:	ND<330	330			
4-chloro-3-methylpheno:	ND<330	330	80/77	11-122	4%
2-methyl-naphthalene:	ND<330	330			
hexaclorocyclopentadie:	ND<330	330			
2,4,6-trichlorophenol:	ND<330	330			
2,4,5-trichlorophenol:	ND<800	800			



Superior Precision Analytical, Inc.

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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 30184

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
2-chloronaphthalene:	ND<330	330			
2-nitroaniline:	ND<800	800			
acenaphthylene:	ND<330	330			
dimethylphthlate:	ND<330	330			
2,6-dinitrotoluene:	ND<330	330			
acenaphthene:	ND<330	330	81/81	20-131	0%
3-nitroaniline:	ND<800	800			
2,4-dinitrophenol:	ND<800	800			
dibenzofuran:	ND<330	330			
2,4-dinitrotoluene:	ND<330	330	72/68	7-111	6%
4-nitrophenol:	ND<800	800	85/82	1-118	4%
fluorene:	ND<330	330			
4-chlorophenyl-phenyle:	ND<330	330			
diethylphthlate:	ND<330	330			
4-nitroaniline:	ND<800	800			
4,6-dinitro-2-methylph:	ND<800	800			
n-nitrosodiphenylamine:	ND<330	330			
4-bromo-phenyl-phenyle:	ND<330	330			
hexachlorobenzene:	ND<330	330			
pentachlorophenol:	ND<800	800	105/104	1-119	1%
phenanthrene:	ND<330	330			
anthracene:	ND<330	330			
di-n-butylphthlate:	ND<330	330			
fluoranthene:	ND<330	330			
benzidine:	ND<1700	1700			
pyrene:	ND<330	330	81/76	20-156	6%
butylbenzylphthlate:	ND<330	330			
3,3'-dichlorobenzidine:	ND<660	660			
benzo[a]anthracene:	ND<330	330			



Superior Precision Analytical, Inc.

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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 30184

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
chrysene:	ND<330	330			
bis(2-ethylhexyl) phtha:	ND<330	330			
di-n-octylphthalate:	ND<330	330			
benzo(b,k) fluoranthene:	ND<330	330			
benzo[a]pyrene:	ND<330	330			
indeno[1,2,3-cd]pyrene:	ND<330	330			
dibenzo[a,h]anthracene:	ND<330	330			
benzo[g,h,i]anthracene:	ND<330	330			
2-fluorophenol:	74			25-121	
phenol-d6:	81			24-113	
nitrobenzene-d5:	78			23-120	
2-fluorobiphenyl:	76			30-115	
2,4,6-tribromophenol:	91			19-122	
terphenyl-d14:	80			18-137	

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/Kg = Parts per billion (ppb)
 QC File No. 30184


 Senior Chemist
 Account Manager



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 01/13/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30184- 1	IX-1	01/05/94	01/06/94 Soil
30184- 2	IX-2	01/05/94	01/07/94 Soil
30184- 3	IX-3	01/05/94	01/07/94 Soil
30184- 4	IX-4	01/05/94	01/07/94 Soil
30184- 5	IX-5	01/05/94	01/07/94 Soil
30184- 6	IX-6	01/05/94	01/10/94 Soil
30184- 7	IB-1	01/05/94	01/10/94 Soil
30184- 8	IB-2	01/05/94	01/10/94 Soil
30184- 9	IX-7	01/05/94	01/10/94 Soil
30184-10	IX-8	01/05/94	01/11/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 30184- 1 30184- 2 30184- 3 30184- 4 30184- 5

Gasoline:	18 ✓	1900 ✓	390 ✓	84 ✓	4 ✓
Benzene:	0.97 ✓	2.0 ✓	1.3 ✓	0.89 ✓	0.73 ✓
Toluene:	2.2	11	5.8	3.2	0.62
Ethyl Benzene:	0.40	15	1.9	2.6	0.12
Total Xylenes:	2.5	66	8.7	16	0.62
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number: 30184- 6 30184- 7 30184- 8 30184- 9 30184-10

Gasoline:	ND<1 ✓	ND<1 ✓	ND<1 ✓	ND<1 ✓	1 ✓
Benzene:	ND<.005 ✓	ND<.005 ✓	ND<.005 ✓	0.016 ✓	0.023 ✓
Toluene:	ND<.005	ND<.005	ND<.005	0.013	0.21
Ethyl Benzene:	ND<.005	ND<.005	ND<.005	0.017	0.056
Total Xylenes:	0.008	ND<.005	ND<.005	0.068	0.38
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 01/13/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30184-11	IX-9	01/05/94	01/06/94 Soil
30184-12	IX-10	01/05/94	01/10/94 Soil
30184-13	WO-1	01/05/94	01/10/94 Soil
30184-14	WO-2	01/05/94	01/10/94 Soil
30184-15	WO-3	01/05/94	01/10/94 Soil
30184-16	WO-4	01/05/94	01/10/94 Soil
30184-17	SP-4 (A-D)	01/05/94	01/07/94 Soil
30184-18	SP-5 (A-D)	01/05/94	01/06/94 Soil
30184-19	SP-6 (A-D)	01/05/94	01/06/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 30184-11 30184-12 30184-13 30184-14 30184-15

Gasoline:	1	ND<1	ND<1	ND<1	170
Benzene:	0.005	ND<.005	ND<.005	ND<.005	ND<0.32
Toluene:	0.064	ND<.005	ND<.005	ND<.005	ND<0.32
Ethyl Benzene:	0.032	ND<.005	ND<.005	ND<.005	0.36
Total Xylenes:	0.21	ND<.005	0.008	0.011	0.34
Diesel Range:	NA	NA	ND<1	ND<1	4400
Oil and Grease:	NA	NA	ND<50	ND<50	120
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number: 30184-16 30184-17 30184-18 30184-19

Gasoline:	27	150	1300	2600
Benzene:	ND<.005	ND<0.25	0.80	1.8
Toluene:	0.007	3.0	30	86
Ethyl Benzene:	0.064	3.0	21	40
Total Xylenes:	0.18	20	120	230
Diesel Range:	130	NA	NA	NA
Oil and Grease:	210	NA	NA	NA
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg



Superior Precision Analytical, Inc.

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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 30184

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

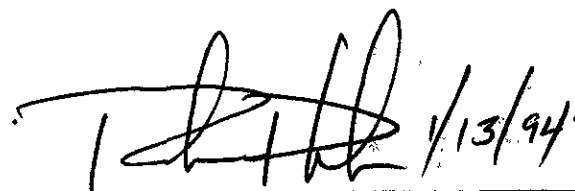
OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	124/116	7%	70-130
Benzene:	112/109	3%	70-130
Toluene:	109/106	3%	70-130
Ethyl Benzene:	106/103	3%	70-130
Total Xylenes:	111/107	4%	70-130
Diesel Range:	106/111	5%	75-125
Oil and Grease:	78/80	2%	56-106


Senior Chemist



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 ▪ Martinez, California 94553 ▪ (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 30184
CLIENT: TOUCHSTONE DEVELOPMENTS
CLIENT JOB NO.: 0006-1

DATE RECEIVED: 01/05/94
DATE REPORTED: 01/06/94
DATE SAMPLED : 01/05/93

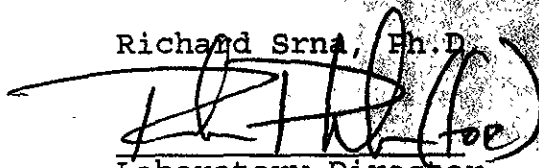
ANALYSIS FOR TOTAL ORGANIC LEAD by DHS METHOD (LUFT MANUAL)

LAB #	Sample Identification	Concentration (mg/Kg)
17	SP-4 (A-D)	ND

mg/kg - parts per million (ppm)
Method Detection Limit for Organic Lead in Soil : 2 mg/kg

QAQC Summary: MS/MSD Average Recovery : 104/103
Duplicate RPD : 1%

Richard Srna, Ph.D.


Laboratory Director

1/6/94

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>0006</u> Facility Address <u>760 Grand Ave, Oakland</u> Consultant Project Number <u>0006-1</u> Consultant Name <u>Touchstone Developments</u> Address <u>PO Box 2554 Santa Rosa CA</u> Project Contact (Name) <u>Jeff Monroe</u> (Phone) <u>707 538 8818</u> (Fax Number) <u>538 8812</u>	Chevron Contact (Name) <u>Mark Miller</u> (Phone) <u>510 842 8134</u> Laboratory Name <u>Superior</u> Laboratory Release Number <u>8499660</u> Samples Collected by (Name) <u>Jeff Monroe</u> Collection Date <u>1-5-94</u> Signature <u>Jeff Monroe</u>
--	---	--

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed										Remarks				
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	Organic Pb						
W0-3	15	1	S	D	14:20		Yes	X	X	X	X	X	X	X	X	X	X	X	X	X	} 24 hr TOS only	
W0-4	16	1		D	14:22		Yes	X	X	X	X	X	X	X	X	X	X	X	X	X		
SP-4a-d	17	4		C	14:00		Yes	X	X	X	X	X	X	X	X	X	X	X	X	X		} 24 hr T.A.T.
SP-5a-d	18	4		C	14:10		Yes	X	X	X	X	X	X	X	X	X	X	X	X	X		
SP-6a-d	19	4	V	C	14:15		Yes	X	X	X	X	X	X	X	X	X	X	X	X	X		

Please Initial: SS
 Samples Stored in ice. 40C
 Appropriate containers _____
 Samples preserved _____
 VOA's without headspace _____
 Comments: _____

Contracted for the analysis

Relinquished By (Signature) <u>Jeff Monroe</u>	Organization <u>TD</u>	Date/Time <u>1-5-94</u>	Received By (Signature) <u>David Syed</u>	Organization <u>Superior</u>	Date/Time <u>1/5/94</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time <u>3:15</u> <u>1/5/94</u>	

COC-3.0.WG/03 81/HCH



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 13-January-1994

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC
by EPA Method SW-846 6010

Chronology

Laboratory Number 30184

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WO-1	01/05/94	01/05/94	01/07/94	01/10/94		13
WO-2	01/05/94	01/05/94	01/07/94	01/10/94		14
WO-3	01/05/94	01/05/94	01/07/94	01/10/94		15
WO-4	01/05/94	01/05/94	01/07/94	01/10/94		16



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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 13-January-1994

ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC

Laboratory Number	Sample Identification	Matrix
30184-13	WO-1	Soil
30184-14	WO-2	Soil
30184-15	WO-3	Soil
30184-16	WO-4	Soil

RESULTS OF ANALYSIS

Laboratory Number: 30184-13 30184-14 30184-15 30184-16

Cadmium ✓	(Cd):	ND<0.5	0.5	0.5	ND<0.5
Chromium ✓	(Cr):	19	14	17	16
Lead ✓	(Pb):	ND<5	ND<5	6	ND<5
Nickel ✓	(Ni):	29	24	30	29
Zinc	(Zn):	45	31	46	41
Concentration:		mg/Kg	mg/Kg	mg/Kg	mg/Kg



Superior Precision Analytical, Inc.

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ANALYSIS FOR CADMIUM, CHROMIUM, LEAD, NICKEL, & ZINC Quality Assurance and Control Data - Soil

Laboratory Number 30184

Compound		Method		Spike Recovery (%)	Limits (%)	RPD (%)
		Blank (mg/Kg)	RL (mg/Kg)			
Cadmium	(Cd):	ND<0.5	0.5	104/104	75-125	0%
Chromium	(Cr):	ND<5	5	96/114	75-125	17%
Lead	(Pb):	ND<5	5	101/103	75-125	2%
Nickel	(Ni):	ND<5	5	103/101	75-125	2%
Zinc	(Zn):	ND<5	5	101/100	75-125	1%

Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/Kg = Parts per million (ppm)

QC File No. 30184

Senior Chemist
Account Manager



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 ▪ Martinez, California 94553 ▪ (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 13-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 30184

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WO-1	01/05/94	01/05/94	/ /	01/07/94		13
WO-2	01/05/94	01/05/94	/ /	01/07/94		14
WO-3	01/05/94	01/05/94	/ /	01/07/94		15
WO-4	01/05/94	01/05/94	/ /	01/07/94		16



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 13-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
30184-13	WO-1	Soil
30184-14	WO-2	Soil
30184-15	WO-3	Soil
30184-16	WO-4	Soil

RESULTS OF ANALYSIS

Laboratory Number:	30184-13	30184-14	30184-15	30184-16
--------------------	----------	----------	----------	----------

Chloromethane/Vinyl Ch:	ND<10.0	ND<10.0	ND<10.0	ND<10.0
Bromomethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloroethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Trichlorofluoromethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Dichloromethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
t-1,2-Dichloroethene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
c-1,2-Dichloroethene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloroform:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,1-Trichloroethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Carbon tetrachloride:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichloroethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Trichloroethene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
c-1,3-Dichloropropene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichloropropane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
t-1,3-Dichloropropene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Bromodichloromethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,2-Trichloroethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Tetrachloroethene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Dibromochloromethane:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chlorobenzene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Bromoform:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,2,2-Tetrachloroeth:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,3-Dichlorobenzene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichlorobenzene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,4-Dichlorobenzene:	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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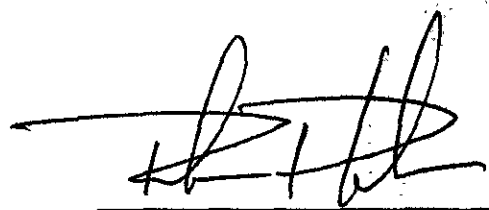
HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.
Quality Assurance and Control Data - Soil

Laboratory Number 30184

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Chloromethane/Vinyl Ch:	ND<10.0	10.0			
Bromomethane:	ND<5.0	5.0			
Chloroethane:	ND<5.0	5.0			
Trichlorofluoromethane:	ND<5.0	5.0			
1,1-Dichloroethene:	ND<5.0	5.0	109/110	70-143	1%
Dichloromethane:	ND<5.0	5.0			
t-1,2-Dichloroethene:	ND<5.0	5.0			
1,1-Dichloroethane:	ND<5.0	5.0			
c-1,2-Dichloroethene:	ND<5.0	5.0			
Chloroform:	ND<5.0	5.0			
1,1,1-Trichloroethane:	ND<5.0	5.0			
Carbon tetrachloride:	ND<5.0	5.0			
1,2-Dichloroethane:	ND<5.0	5.0			
Trichloroethene:	ND<5.0	5.0	96/95	79-132	1%
c-1,3-Dichloropropene:	ND<5.0	5.0			
1,2-Dichloropropane:	ND<5.0	5.0			
t-1,3-Dichloropropene:	ND<5.0	5.0			
Bromodichloromethane:	ND<5.0	5.0			
1,1,2-Trichloroethane:	ND<5.0	5.0			
Tetrachloroethene:	ND<5.0	5.0			
Dibromochloromethane:	ND<5.0	5.0			
Chlorobenzene:	ND<5.0	5.0	114/112	92-132	2%
Bromoform:	ND<5.0	5.0			
1,1,2,2-Tetrachloroeth:	ND<5.0	5.0			
1,3-Dichlorobenzene:	ND<5.0	5.0			
1,2-Dichlorobenzene:	ND<5.0	5.0			
1,4-Dichlorobenzene:	ND<5.0	5.0			

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/Kg = Parts per billion (ppb)
 QC File No. 30184



1/13/94

Senior Chemist
 Account Manager

Fax copy of Lab Report and COC to Chevron Contact: No Yes *3/15/82*

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 0006
Facility Address 460 Grand Ave., Oakland
Consultant Project Number 0006-1
Consultant Name Touchstone Development
Address PO Box 1554 Santa Cruz CA
Project Contact (Name) Jeff Monroe
(Phone) 715 558 0118 (Fax Number) 338 8812

Chevron Contact (Name) Mark Miller
(Phone) 510 842 8134
Laboratory Name Superior
Laboratory Release Number 8499660
Samples Collected by (Name) Jeff Monroe
Collection Date 1-5-94
Signature Jeff Monroe

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed											Remarks															
								BTEX + TPH GAS (8020 + 8018)	TPH Diesel (8015)	Oil and Greases (8020)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8210)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)																			
IX-1	1		S	D	12:10		Yes	X														24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only												
IX-2	2				12:12																		24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only											
IX-3	3				12:15																			24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only										
IX-4	4				12:18																				24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only									
IX-5	5				12:20																					24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only								
IX-6	6				12:22																						24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only							
TB-1	7				12:25																							24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only						
TB-2	8				12:30																								24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only					
IX-7	9				12:35																									24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only				
IX-8	10				12:38																										24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only			
IX-9	11				12:40																											24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only		
IX-10	12				12:45																												24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only	
WO-1	13				13:45			X																										24 hr TAT for IX-1 to IX-9 As contracted for others 324 hr TO only
WO-2	14				13:47			X																										

Please Initial: SS
 Samples Stored in ice 40C
 Appropriate containers _____
 Samples preserved _____
 VOA's without headspace _____
 Comments _____

Relinquished By (Signature) <u>Jeff Monroe</u>	Organization <u>TD</u>	Date/Time <u>1-5-94</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Seydel Seydel</u>	Organization _____	Date/Time <u>3:15 1/5/94</u>	

COC-10/93/03 91/ACH

Chain of Custody and Analysis Request

From: Superior Precision Analytical, Inc.
825 Arnold Drive Suite 114
Martinez, CA 94553

Phone No. (415) 229-1512 Fax No. (415) 229-1526

Contact: Nancy

P.O. No. 30184

Turn Around Time
 (circle one)
 Same Day 72 Hrs
 24 Hrs 5 Day
 48 Hrs 10 Day



Superior Precision Analytical, Inc.
 P.O. Box 1545
 Martinez, California 94553

Work Subcontracted to: SF

Section II: Analysis Request

Laboratory Sample Identification	Matrix S = Soil A = Air W = Water	8240	8270	8010	8080	Client Sample Identification	Number of Containers	Preservative (yes or no)	DATE SAMPLED	Sampling Remarks
1 30184-13	S		X			W0-1	1	N	1/5/94	
2 ↓ -14	↓		↓			↓ -2	↓	↓	↓	due 1/12/1994 10 DAT
3 ↓ -15	↓		↓			↓ -3	↓	↓	↓	
4 ↓ -16	↓		↓			↓ -4	↓	↓	↓	
5										
6										
7										
8										
9										
10										
11										
12										

Relinquished by <u>Detlev</u> Organization <u>Superior</u>	Date/Time <u>1/5/94 1700</u>	Received by _____ Organization _____	Date/Time _____
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____	Date/Time _____
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____	Date/Time _____

Lab please initial the following:

Samples Stored in Ice _____

Appropriate Containers _____

Samples Preserved _____

VDAs without Headspace _____

Comments _____



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-2
Reported 01/21/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
30214-1	IX-11	01/20/94	01/20/94	Soil
30214-2	IX-12	01/20/94	01/21/94	Soil
30214-3	IX-13	01/20/94	01/20/94	Soil
30214-4	IX-14	01/20/94	01/20/94	Soil
30214-5	IX-15	01/20/94	01/20/94	Soil
30214-6	IX-16	01/20/94	01/21/94	Soil
30214-7	IX-17	01/20/94	01/20/94	Soil
30214-8	IX-18	01/20/94	01/21/94	Soil
30214-9	IX-19	01/20/94	01/20/94	Soil
30214-10	IX-20	01/20/94	01/20/94	Soil

RESULTS OF ANALYSIS

Laboratory Number: 30214-1 30214-2 30214-3 30214-4 30214-5 30214-6

Gasoline:	3	2600	21	7	9
Benzene:	0.6	12	0.41	1	1.2
Toluene:	0.24	120	0.077	0.92	1.2
Ethyl Benzene:	0.097	46	0.19	0.2	0.13
Total Xylenes:	0.5	240	0.13	0.78	0.68
Diesel Range:	NA	NA	NA	NA	NA
Oil and Grease:	NA	NA	NA	NA	NA
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number: 30214-6 30214-7 30214-8 30214-9 30214-10

Gasoline:	780	7	15	ND<1	ND<1
Benzene:	3.7	0.25	0.18	0.11	ND<.005
Toluene:	31	1.2	0.49	0.01	0.006
Ethyl Benzene:	20	0.32	0.52	0.055	ND<.005
Total Xylenes:	100	1.9	3.1	0.029	0.008
Diesel Range:	NA	NA	NA	NA	ND<1
Oil and Grease:	NA	NA	NA	NA	ND<50
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-2
Reported 01/21/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30214-11	WO-5	01/20/94	01/20/94 Soil
30214-12	WO-6	01/20/94	01/20/94 Soil
30214-13	WO-7	01/20/94	01/20/94 Soil
30214-14	WO-8	01/20/94	01/21/94 Soil
30214-15	SP-7 A-D	01/20/94	01/21/94 Soil
30214-16	SP-8 A-D	01/20/94	01/21/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 30214-11 30214-12 30214-13 30214-14 30214-15

Gasoline:	ND<1 ✓	5*	16*	10*	130*
Benzene:	ND<.005 ✓	ND<.005 ✓	ND<.005 ✓	0.005 ✓	ND<0.13 ✓
Toluene:	ND<.005 ✓	ND<.005 ✓	0.008 ✓	0.007 ✓	2.2 ✓
Ethyl Benzene:	ND<.005 ✓	ND<.005 ✓	ND<.005 ✓	0.007 ✓	2.9 ✓
Total Xylenes:	0.005 ✓	0.011 ✓	0.066 ✓	0.031 ✓	20 ✓
Diesel Range:	ND<1 ✓	17** ✓	51** ✓	200** ✓	NA ✓
Oil and Grease:	ND<50 ✓	ND<50 ✓	ND<50 ✓	ND<50 ✓	NA ✓
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number: 30214-16

Gasoline:	180*
Benzene:	ND<0.13 ✓
Toluene:	1.4 ✓
Ethyl Benzene:	3.5 ✓
Total Xylenes:	27 ✓
Diesel Range:	NA ✓
Oil and Grease:	NA ✓
Concentration:	mg/Kg

* These hydrocarbons were in the range of gas but did not resemble a gasoline pattern. Chromatogram copies enclosed.

**These hydrocarbons were in the range of diesel but did not resemble a diesel pattern. Chromatogram copies enclosed.



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 30214

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	118/107	10%	70-130
Benzene:	88/88	0%	70-130
Toluene:	107/103	4%	70-130
Ethyl Benzene:	100/100	0%	70-130
Total Xylenes:	113/110	3%	70-130
Diesel Range:	112/114	2%	70-130
Oil and Grease:	82/80	2%	50-125

Michael R. Veary
Senior Chemist

--+

1) Surrogate : Trifluorotoluene (SS)= 95.99883 %

2) Total Xylenes =19688.47

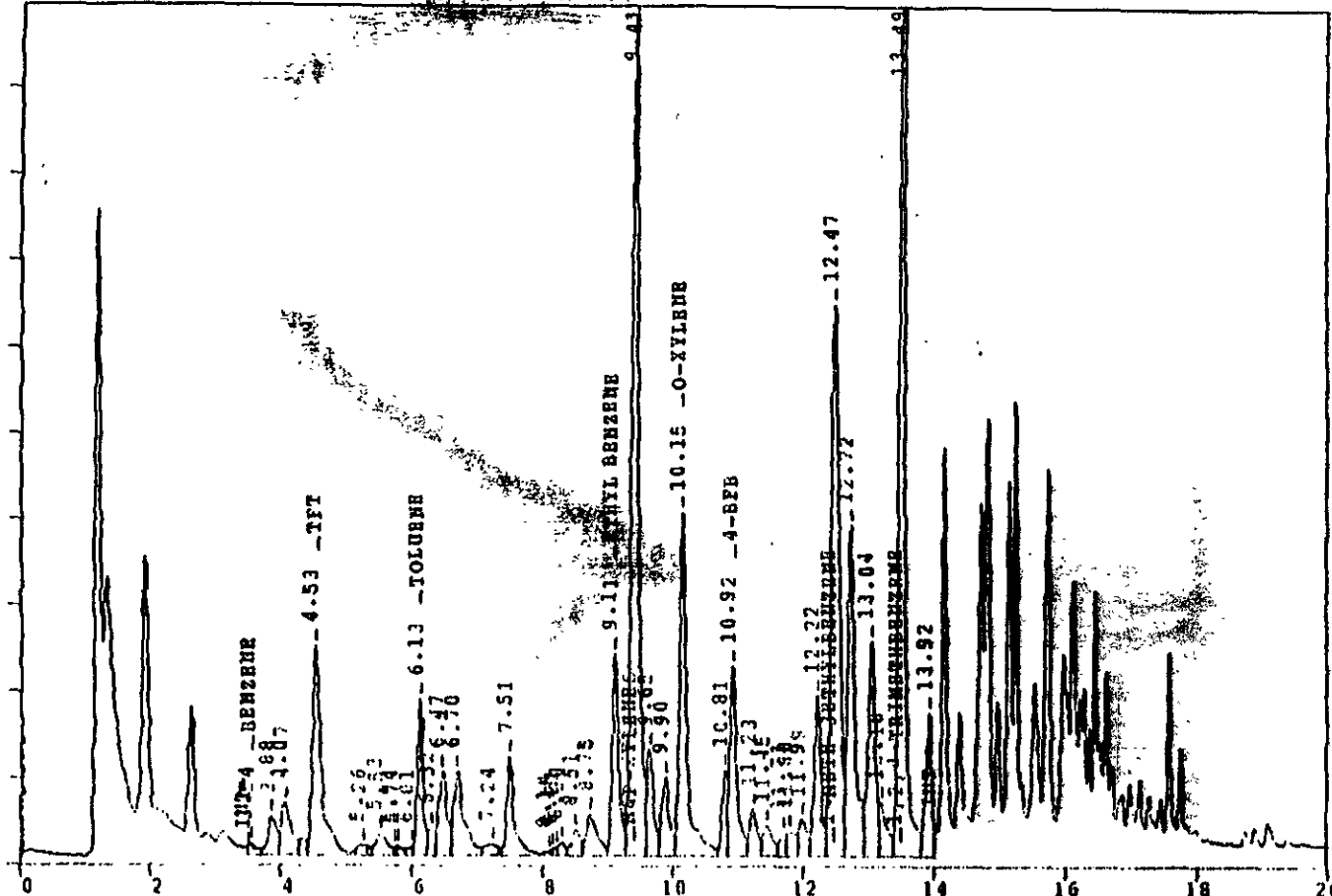
3) QC Check : Purge Efficiency (LQC) = 78.36572 %

Checked by *dn* Date

File=C:\CP\vph\0120G4F.20R Date printed=01-21-1994 Time= 02:03:27

Sample Name=SAS1-30214-15

0.0 to 20.0 min. Low Y=0.263 High Y=1.763 mv Span=7.3



SAMPLE ID: SAS1-30214-15

DATA FILE: C:\CP\vph\0120G4F.20R

RUN DATE: JAN 21, 1994 01:39:00

INSTRUMENT: GAS/BTXE

OPERATOR: dn

METHOD: C:\CP\VPH\GASFTR4.MET

SAMPLE WT/VOL: .02

CALIB.: C:\CP\VPH\GASFTR4.CAL

DILUTION: 1

LIMS METHOD: vphbtxe

INSTRUMENT SERIAL#: 2950A26786

ANALYSIS METHOD: 8020

EXTRACTION METHOD: 5030

Ret Time (min)	Peak Name	Peak Area	Formula
3.57	BENZENE	0	NA
4.53	TFT	3544	NA
6.14	TOLUENE	0	NA
9.11	ETHYL BENZENE	0	NA
9.40	M&P-XYLENES	0	NA
10.15	O-XYLENE	0	NA
10.92	4-RFB	2469	NA
12.46	1-METH-3ETHYLBENZE	0	NA

2) Total Xylenes = 31.1874
 3) QC Check : Purge Efficiency (LQC) = 153.0705 %

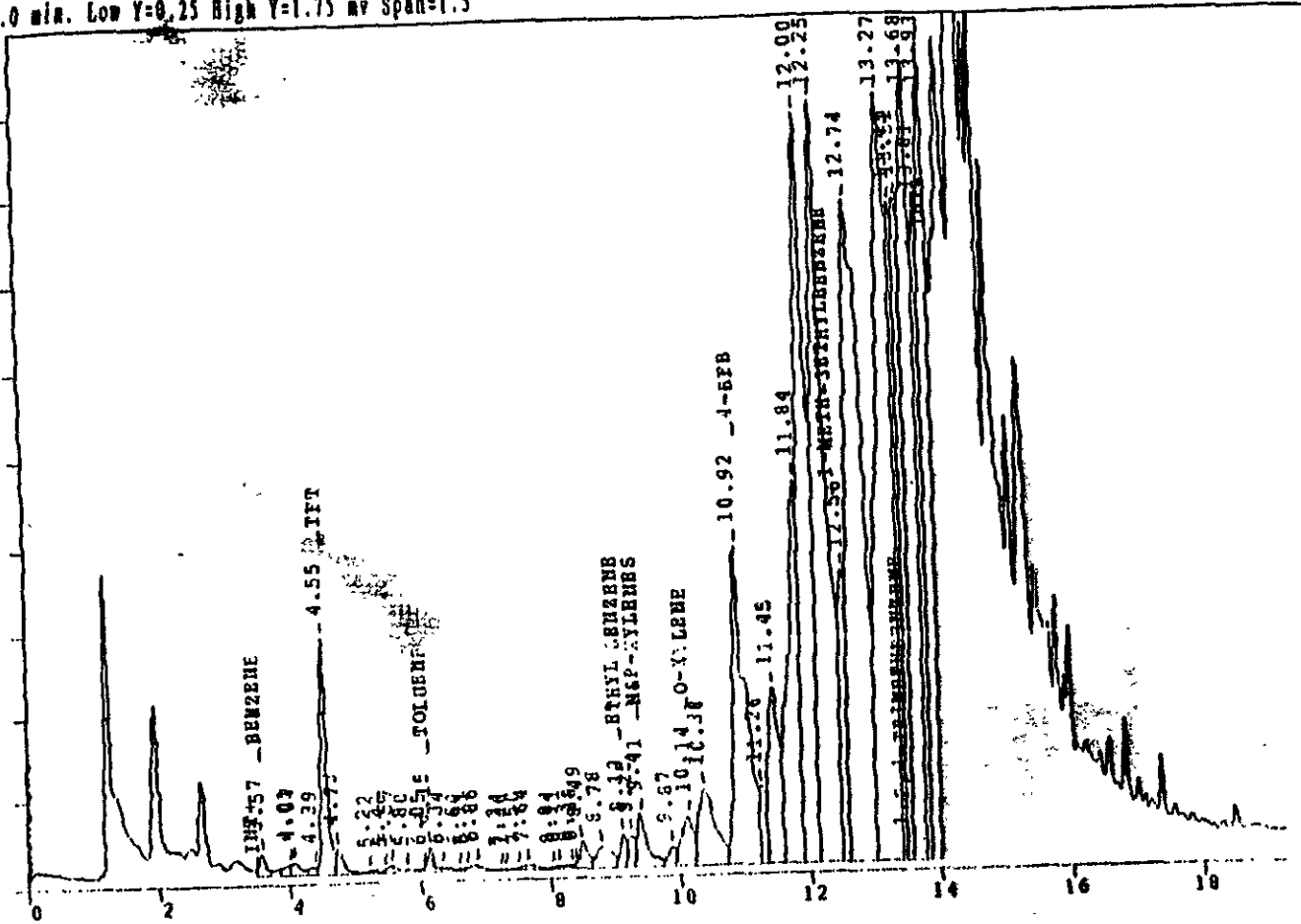
Checked by _____

Date _____

File=C:\CP\vp\0121G4F.04R Date printed=01-21-1994 Time= 11:45:14 .

Sample Name=SAS1-30214-14

0.0 to 20.0 min. Low Y=0.25 High Y=1.75 mv Span=1.5



SAMPLE ID: SAS1-30214-14

DATA FILE: C:\CP\vp\0121G4F.04

RUN DATE: JAN 21, 1994 11:20:05

INSTRUMENT: GAS/BTXE
 OPERATOR: dn

METHOD: C:\CP\VP\GASFTR4.MET
 CALIB.: C:\CP\VP\GASFTR4.CAL
 LIMS METHOD: vphbtxe
 ANALYSIS METHOD: 8020
 EXTRACTION METHOD: 5030

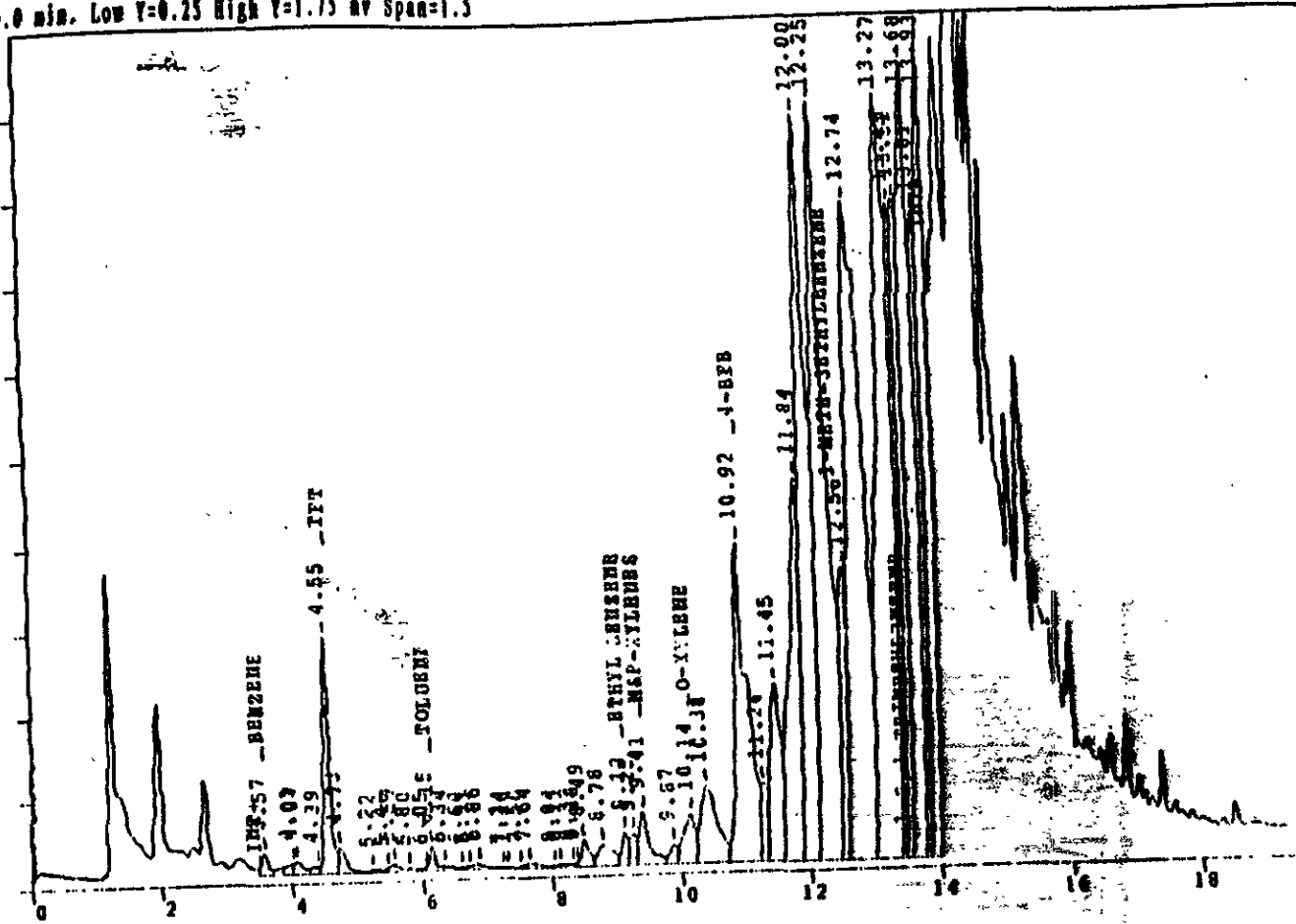
SAMPLE WT/VOL: .54
 DILUTION: 1
 INSTRUMENT SERIAL#: 2950A26786

Ret Time (min)	Peak Name	Peak Area	Formula
3.57	BENZENE	0	NA
4.55	TFT	2682	NA
6.14	TOLUENE	0	NA
9.11	ETHYL BENZENE	0	NA
9.40	M&P-XYLENES	0	NA
10:15	O-XYLENE	0	NA
10.92	4-BFR	7530	NA
12.46	1-METH-3ETHYLBENZE	0	NA
13.48	1,2,4-TRIMETHBENZE	0	NA
50.00	GASINVERT	0	142840

2) Total Xylenes = 31.1874
 3) QC Check : Purge Efficiency (LQC) = 153.0705 %

Checked by _____ Date _____

File=C:\CP\vp\0121G4F.04R Date printed=01-21-1994 Time= 11:45:14.
 Sample Name=SAS1-30214-14
 0.0 to 20.0 min. Low V=0.25 High V=1.75 mv Span=1.5



SAMPLE ID: SAS1-30214-14

DATA FILE: C:\CP\vp\0121G4F.04I

RUN DATE: JAN 21, 1994 11:20:05

INSTRUMENT: GAS/BTXE
 OPERATOR: dn

METHOD: C:\CP\VP\GASFTR4.MET
 CALIB.: C:\CP\VP\GASFTR4.CAL
 LIMS METHOD: vphbtxe
 ANALYSIS METHOD: 8020
 EXTRACTION METHOD: 5030

SAMPLE WT/VOL: .54
 DILUTION: 1
 INSTRUMENT SERIAL#: 2950A26786

Ret Time (min)	Peak Name	Peak Area	Formula
3.57	BENZENE	0	NA
4.55	TFT	2682	NA
6.14	TOLUENE	0	NA
9.11	ETHYL BENZENE	0	NA
9.40	M&P-XYLENES	0	NA
10.15	O-XYLENE	0	NA
10.92	4-BFB	7530	NA
12.46	1-METH-JETHYLBENZE	0	NA
13.48	1,2,4-TRIMETHBENZE	0	NA
50.00	GASINVERT	0	142840

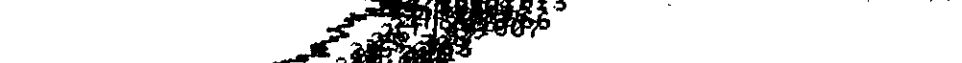
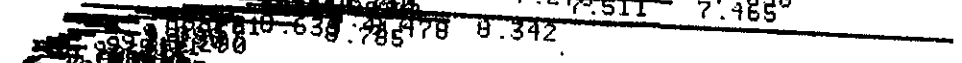
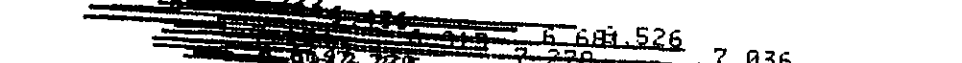
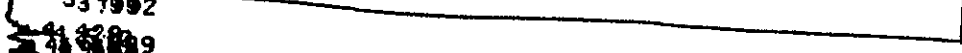
DF.022

003387

1.049

1.003

339902



8.179

STOP

SUPERIOR ANALYTICAL
TOTAL PETROLEUM HYDROCARBON ANALYSIS
JAN 21, 1994

#####REAL CHANNEL#####REAL CANNEL#####
METHOD USED : M.TPH2.MET
THIS IS COLUMN 1

RUN NUMBER: 5162

BOTTLE NUMBER: 11

30124-13

GASOLINE -----

RT 3.6 TO 11

AREASUM = 811411.

CONCENTRATION 64.325

KEROSENE-----

RT 3.8 TO 21

AREASUM = 1240600.

CONCENTRATION 38.1872

DIESEL RANGE C10-C24 --

RT 6.8 TO 26.5

AREASUM = 2656931.

700m

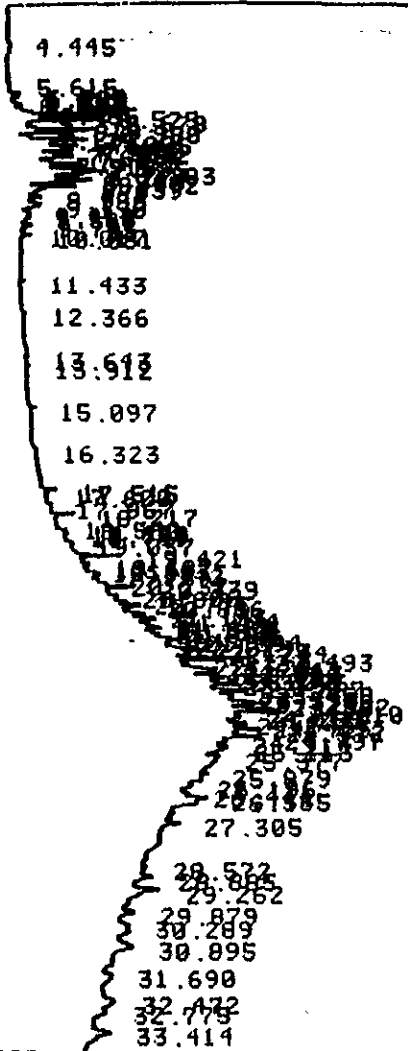
START

BF.021

009905

1.049

1.005



STOP

SUPERIOR ANALYTICAL
TOTAL PETROLEUM HYDROCARBON ANALYSIS
JAN 21, 1994

#####REAL CHANNEL#####REAL CANNEL#####
METHOD USED : M:TPH2.MET
THIS IS COLUMN 1

RUN NUMBER: 5161

BOTTLE NUMBER: 10

30124-12

GASOLINE -----	RT 3.6	TO 11
AREASUM = 123558.	CONCENTRATION 9.76627	
KEROSENE-----	RT 3.8	TO 21
AREASUM = 254924.	CONCENTRATION 7.84054	
DIESEL RANGE C10-C24 --	RT 6.8	TO 26.5
AREASUM = 907506.	CONCENTRATION 17.3728	

17ppm

Dr.022

001987

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1.087

2.664

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STOP

SUPERIOR ANALYTICAL
TOTAL PETROLEUM HYDROCARBON ANALYSIS
JAN 21, 1994

*****REAL CHANNEL*****REAL CANNEL*****
METHOD USED : M:TPH2.MET
THIS IS COLUMN 1

RUN NUMBER: 5163

BOTTLE NUMBER: 12

30124-14

GASOLINE ----- RT 3.6 TO 11

AREASUM = 1100429. CONCENTRATION 87.345

KEROSENE----- RT 3.8 TO 21

AREASUM = 2437072. CONCENTRATION 75.0004

DIESEL RANGE C10-C24 -- RT 6.8 TO 26.5

AREASUM = 9826637. CONCENTRATION 197.143

CONCENTRATION FACTOR = 2.

200 PPM

- 1) Surrogate : Trifluorotoluene (SS) = 96.73809 %
 2) Total Xylenes = 26959.34
 3) QC Check : Purge Efficiency (LQC) = 77.70085 %

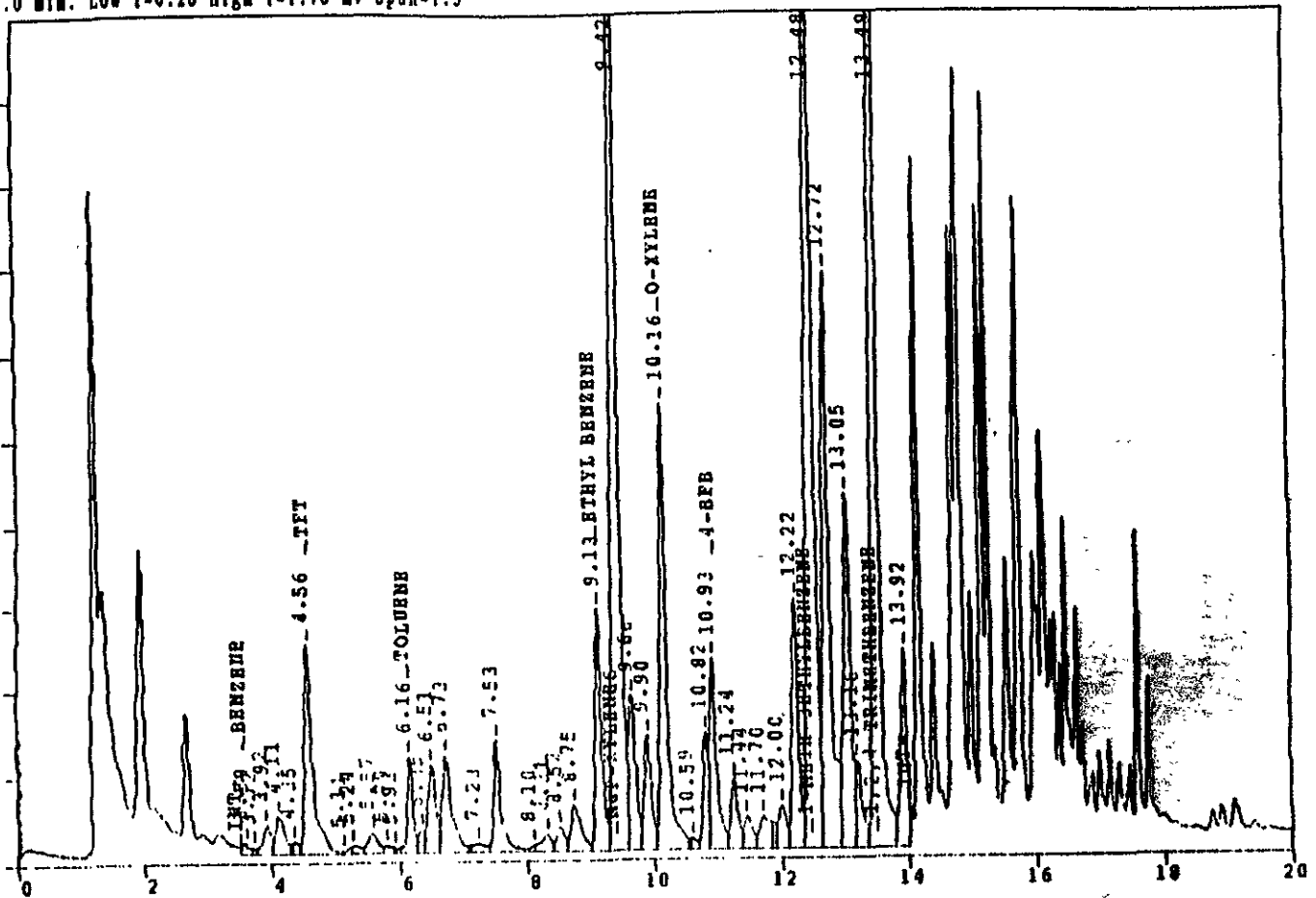
DN

Checked by _____ Date _____

File=C:\CP\vp\0120G4F.21R Date printed=01-21-1994 Time= 02:31:50

Sample Name=SAS1-30214-16

0.0 to 20.0 min. Low Y=0.26 High Y=1.76 mv Span=1.5



SAMPLE ID: SAS1-30214-16

DATA FILE: C:\CP\vp\0120G4F.21R

RUN DATE: JAN 21, 1994 02:07:15

INSTRUMENT: GAS/BTXE
 OPERATOR: dn

METHOD: C:\CP\VP\GASFT4.MET
 CALIB.: C:\CP\VP\GASFT4.CAL
 LIMS METHOD: vphbtxe
 ANALYSIS METHOD: 8020
 EXTRACTION METHOD: 5030

SAMPLE WT/VOL: .02
 DILUTION: 1
 INSTRUMENT SERIAL#: 2950A26786

Ret Time (min)	Peak Name	Peak Area	Formula
3.57	BENZENE	0	NA
4.56	TFT	3234	NA
6.14	TOLUENE	0	NA
9.11	ETHYL BENZENE	0	NA
9.40	M&P-XYLENES	0	NA
10.15	O-XYLENE	0	NA
10.93	4-BFB	2411	NA
12.46	1-METH-3ETHYLBENZE	0	NA
13.48	1,2,4-TRIMETHBENZE	0	NA
50.00	GASINVERT	0	93552

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number Chevron 0006
Facility Address 460 Grand Ave., Oakland
Consultant Project Number 0006-2
Consultant Name Providence Developments
Address PO Box 2534, Santa Rosa CA
Project Contact (Name) Jeff Monroe
(Phone) 705 88818 (Fax Number) 5388812

Chevron Contact (Name) Mark Miller
(Phone) 510 842 8134
Laboratory Name Superior
Laboratory Release Number 5499660
Samples Collected by (Name) Jeff Monroe
Collection Date 1-20-94
Signature Jeff Monroe

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses to be Performed										Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8020)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)			
IX-11		1	S	D	9:30		Yes	X										Please initial: Samples Stored in ice <u>Y</u> Appropriate containers <u>Y</u> Samples preserved <u>Y</u> VOA's without hoodspace <u>N</u> Comments <u>no</u> } normal TAT } 24 to 48 hr TAT } 24 to 48 hr TAT
IX-12					9:33													
IX-13					9:34													
IX-14					9:36													
IX-15					9:45													
IX-16					9:46													
IX-17					9:50													
IX-18					9:53													
IX-19					9:56													
IX-20					10:00													
WO-5					11:14													
WO-6					11:15													
WO-7					11:30													
WO-8			S	D	11:31		Yes											

Relinquished By (Signature) <u>Jeff Monroe</u>	Organization <u>PD</u>	Date/Time <u>1-20-94</u>	Received By (Signature) <u>JEAN VINCEN</u>	Organization <u>AERO</u>	Date/Time <u>1/20 2:21</u>	Turn Around Time (Circle Choice) 24 Hrs <u>48 Hrs.</u> 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>JEAN VINCEN</u>	Organization <u>AERO</u>	Date/Time <u>1/20 3:10</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received By Laboratory By (Signature) <u>Pat</u>		Date/Time <u>1/19/94</u>	

COC-3.0/WG/03 01/MSH

1206 mb

Fax copy of Lab Report and COC to Chevron Contact: Yes No

510 842-8252

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 0006
Facility Address: 460 Grand Ave, Oakland
Chevron Contact (Name): Mark Miller
(Phone): 510 842-8134

Consultant Project Number: 0006-2
Laboratory Name: Suprio
Consultant Name: Touchstone Developments
Laboratory Release Number: 849660
Address: PO Box 255 Santa Rosa CA
Sample Collected by (Name): Jeff Monroe
Project Contact (Name): Jeff Monroe
Collection Date: 1-20-94
(Phone): 5388818 (Fax Number): 5388812
Signature: J. Monroe

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Ice (Yes or No)	Analytes To Be Performed											Remarks						
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)										
SP-7ad		4	S	C	14:20		Yes	X																	Composite 4 total
SP-8ad		4	S	C	14:25		Yes	X																	

Please initial: JM 4/0
Samples Stored in ice: ✓
Appropriate containers: ✓
Samples preserved: no
VOA's without hoodspace: no
Comments: 8 containers

JH
TH

Relinquished By (Signature): J. Monroe Organization: TD Date/Time: 1-20-94 Received By (Signature): San Wilson Organization: AERO Date/Time: 1/20/21

Relinquished By (Signature): San Wilson Organization: AERO Date/Time: 1/20/94 Received By (Signature): _____ Organization: _____ Date/Time: _____

Relinquished By (Signature): _____ Organization: _____ Date/Time: _____ Received For Laboratory By (Signature): Robert Organization: _____ Date/Time: 1/20/94

Turn Around Time (Circle Choice): 24 Hrs.
45 Hrs.
10 Days
As Contracted

COC-3.026/03 91/MSH



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-2
Reported 01/28/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30220- 1	IB-3	01/21/94	01/25/94 Soil
30220- 2	IX-21	01/21/94	01/28/94 Soil
30220- 3	IX-22	01/21/94	01/25/94 Soil
30220- 4	WO-9	01/21/94	01/26/94 Soil
30220- 5	WO-10	01/21/94	01/26/94 Soil
30220- 6	WO-11	01/21/94	01/27/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 30220- 1 30220- 2 30220- 3 30220- 4 30220- 5

Gasoline:	ND<1	900	14	49	18
Benzene:	ND<.005	1.7	0.26	0.077	ND<.005
Toluene:	ND<.005	35	0.94	0.71	ND<.005
Ethyl Benzene:	ND<.005	16	0.17	0.99	0.084
Total Xylenes:	ND<.005	110	1.5	6.4	0.36
Diesel Range:	NA	NA	NA	10	90
Oil and Grease:	NA	NA	NA	ND<50	ND<50
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number: 30220- 6

Gasoline:	ND<1
Benzene:	ND<.005
Toluene:	ND<.005
Ethyl Benzene:	ND<.005
Total Xylenes:	0.006
Diesel Range:	2
Oil and Grease:	ND<50
Concentration:	mg/Kg



Superior Precision Analytical, Inc.

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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 30220

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	116/110	5%	70-130
Benzene:	106/101	5%	70-130
Toluene:	107/103	4%	70-130
Ethyl Benzene:	100/100	0%	70-130
Total Xylenes:	115/113	2%	70-130
Diesel Range:	117/116	1%	70-130
Oil and Grease:	82/80	2%	50-140

Alvarez
Senior Chemist



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-2
Reported 28-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 30220

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WO-9	01/21/94	01/21/94	/ /	01/26/94		4
WO-10	01/21/94	01/21/94	/ /	01/26/94		5
WO-11	01/21/94	01/21/94	/ /	01/26/94		6



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-2
Reported 28-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
30220- 4	WO-9	Soil
30220- 5	WO-10	Soil
30220- 6	WO-11	Soil

RESULTS OF ANALYSIS

Laboratory Number: 30220- 4 30220- 5 30220- 6

Chloromethane/Vinyl Ch:	ND<10	ND<10	ND<10
Bromomethane:	ND<5	ND<5	ND<5
Chloroethane:	ND<5	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5	ND<5
Dichloromethane:	ND<5	ND<5	ND<5
t-1,2-Dichloroethene:	ND<5	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5	ND<5
Chloroform:	ND<5	ND<5	ND<5
1,1,1-Trichloroethane:	ND<5	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5	ND<5
1,2-Dichloroethane:	28	ND<5	ND<5
Trichloroethene:	ND<5	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5	ND<5
Tetrachloroethene:	ND<5	ND<5	ND<5
Dibromochloromethane:	ND<5	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5	ND<5
Bromoform:	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	ND<5	ND<5
1,2-Dichlorobenzene:	ND<5	ND<5	ND<5
1,4-Dichlorobenzene:	ND<5	ND<5	ND<5
Concentration:	ug/Kg	ug/Kg	ug/Kg

8010
hit



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

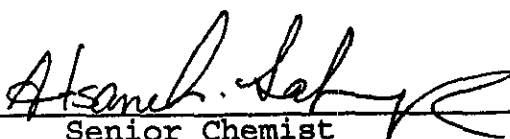
HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.
Quality Assurance and Control Data - Soil

Laboratory Number 30220

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Chloromethane/Vinyl Ch:	ND<10	10			
Bromomethane:	ND<5	5			
Chloroethane:	ND<5	5			
Trichlorofluoromethane:	ND<5	5			
1,1-Dichloroethene:	ND<5	5	143/135	78-158	6%
Dichloromethane:	ND<5	5			
t-1,2-Dichloroethene:	ND<5	5			
1,1-Dichloroethane:	ND<5	5			
c-1,2-Dichloroethene:	ND<5	5			
Chloroform:	ND<5	5			
1,1,1-Trichloroethane:	ND<5	5			
Carbon tetrachloride:	ND<5	5			
1,2-Dichloroethane:	ND<5	5			
Trichloroethene:	ND<5	5	114/105	83-138	8%
c-1,3-Dichloropropene:	ND<5	5			
1,2-Dichloropropane:	ND<5	5			
t-1,3-Dichloropropene:	ND<5	5			
Bromodichloromethane:	ND<5	5			
1,1,2-Trichloroethane:	ND<5	5			
Tetrachloroethene:	ND<5	5			
Dibromochloromethane:	ND<5	5			
Chlorobenzene:	ND<5	5	118/106	90-124	11%
Bromoform:	ND<5	5			
1,1,2,2-Tetrachloroeth:	ND<5	5			
1,3-Dichlorobenzene:	ND<5	5			
1,2-Dichlorobenzene:	ND<5	5			
1,4-Dichlorobenzene:	ND<5	5			

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/Kg = Parts per billion (ppb)
 QC File No. 30220


 Senior Chemist
 Account Manager



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-2
Reported 25-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Chronology

Laboratory Number 30220

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
WO-9	01/21/94	01/21/94	01/24/94	01/25/94		4
WO-10	01/21/94	01/21/94	01/24/94	01/25/94		5
WO-11	01/21/94	01/21/94	01/24/94	01/25/94		6



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-2
Reported 25-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
30220- 4	WO-9	Soil
30220- 5	WO-10	Soil
30220- 6	WO-11	Soil

RESULTS OF ANALYSIS

Laboratory Number: 30220- 4 30220- 5 30220- 6

bis(2-chloroethyl) ethe:	ND<3300	ND<3300	ND<3300
aniline:	ND<3300	ND<3300	ND<3300
phenol:	ND<3300	ND<3300	ND<3300
2-chlorophenol:	ND<3300	ND<3300	ND<3300
1,3-dichlorobenzene:	ND<3300	ND<3300	ND<3300
1,4-dichlorobenzene:	ND<3300	ND<3300	ND<3300
1,2-dichlorobenzene:	ND<3300	ND<3300	ND<3300
benzyl alcohol:	ND<3300	ND<3300	ND<3300
bis-(2-chloroisopropyl):	ND<3300	ND<3300	ND<3300
2-methylphenol:	ND<3300	ND<3300	ND<3300
hexachloroethane:	ND<3300	ND<3300	ND<3300
n-nitroso-di-n-propyla:	ND<3300	ND<3300	ND<3300
4-methylphenol:	ND<3300	ND<3300	ND<3300
nitrobenzene:	ND<3300	ND<3300	ND<3300
isophorone:	ND<3300	ND<3300	ND<3300
2-nitrophenol:	ND<3300	ND<3300	ND<3300
2,4-dimethylphenol:	ND<3300	ND<3300	ND<3300
bis(2-chloroethoxy)met:	ND<3300	ND<3300	ND<3300
2,4-dichlorophenol:	ND<3300	ND<3300	ND<3300
1,2,4-trichlorobenzene:	ND<3300	ND<3300	ND<3300
naphthalene:	ND<3300	ND<3300	ND<3300
benzoic acid:	ND<3300	ND<3300	ND<3300
4-chloroaniline:	ND<3300	ND<3300	ND<3300
hexachlorobutadiene:	ND<3300	ND<3300	ND<3300
4-chloro-3-methylpheno:	ND<3300	ND<3300	ND<3300
2-methyl-naphthalene:	ND<3300	ND<3300	ND<3300
hexaclorocyclopentadie:	ND<3300	ND<3300	ND<3300
2,4,6-trichlorophenol:	ND<3300	ND<3300	ND<3300
2,4,5-trichlorophenol:	ND<8000	ND<8000	ND<8000
Concentration:	ug/Kg	ug/Kg	ug/Kg



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-2
Reported 25-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
30220- 4	WO-9	Soil
30220- 5	WO-10	Soil
30220- 6	WO-11	Soil

RESULTS OF ANALYSIS

Laboratory Number: 30220- 4 30220- 5 30220- 6

2-chloronaphthalene:	ND<3300	ND<3300	ND<330
2-nitroaniline:	ND<8000	ND<8000	ND<800
acenaphthylene:	ND<3300	ND<3300	ND<330
dimethylphthlate:	ND<3300	ND<3300	ND<330
2,6-dinitrotoluene:	ND<3300	ND<3300	ND<330
acenaphthene:	ND<3300	ND<3300	ND<330
3-nitroaniline:	ND<8000	ND<8000	ND<800
2,4-dinitrophenol:	ND<8000	ND<8000	ND<800
dibenzofuran:	ND<3300	ND<3300	ND<330
2,4-dinitrotoluene:	ND<3300	ND<3300	ND<330
4-nitrophenol:	ND<8000	ND<8000	ND<800
fluorene:	ND<3300	ND<3300	ND<330
4-chlorophenyl-phenyle:	ND<3300	ND<3300	ND<330
diethylphthlate:	ND<3300	ND<3300	ND<330
4-nitroaniline:	ND<8000	ND<8000	ND<800
4,6-dinitro-2-methylph:	ND<8000	ND<8000	ND<800
n-nitrosodiphenylamine:	ND<3300	ND<3300	ND<330
4-bromo-phenyl-phenyle:	ND<3300	ND<3300	ND<330
hexachlorobenzene:	ND<3300	ND<3300	ND<330
pentachlorophenol:	ND<8000	ND<8000	ND<800
phenanthrene:	ND<3300	ND<3300	ND<330
anthracene:	ND<3300	ND<3300	ND<330
di-n-butylphthlate:	ND<3300	ND<3300	ND<330
fluoranthene:	ND<3300	ND<3300	ND<330
benzidine:	ND<1700	ND<1700	ND<1700
pyrene:	ND<3300	ND<3300	ND<330
butylbenzylphthlate:	ND<3300	ND<3300	ND<330
3,3'-dichlorobenzidine:	ND<6600	ND<6600	ND<660
benzo[a]anthracene:	ND<3300	ND<3300	ND<330
Concentration:	ug/Kg	ug/Kg	ug/Kg



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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-2
Reported 25-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
30220- 4	WO-9	Soil
30220- 5	WO-10	Soil
30220- 6	WO-11	Soil

RESULTS OF ANALYSIS

Laboratory Number: 30220- 4 30220- 5 30220- 6

chrysene:	ND<3300	ND<3300	ND<330
bis(2-ethylhexyl)phtha:	ND<3300	ND<3300	ND<330
di-n-octylphthalate:	ND<3300	ND<3300	ND<330
benzo(b,k)fluoranthene:	ND<3300	ND<3300	ND<330
benzo[a]pyrene:	ND<3300	ND<3300	ND<330
indeno[1,2,3-cd]pyrene:	ND<3300	ND<3300	ND<330
dibenzo[a,h]anthracene:	ND<3300	ND<3300	ND<330
benzo[g,h,i]anthracene:	ND<3300	ND<3300	ND<330

Concentration: ug/Kg ug/Kg ug/Kg

-- Surrogate % Recoveries --

2-fluorophenol:	80	89	63
phenol-d6:	84	91	68
nitrobenzene-d5:	78	86	64
2-fluorobiphenyl:	95	101	77
2,4,6-tribromophenol:	70	75	71
terphenyl-d14:	96	103	91



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 30220

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
bis(2-chloroethyl) ethe:	ND<330	330			
aniline:	ND<330	330			
phenol:	ND<330	330	70/71	55-105	1%
2-chlorophenol:	ND<330	330	70/73	60-111	4%
1,3-dichlorobenzene:	ND<330	330			
1,4-dichlorobenzene:	ND<330	330	68/70	52-116	3%
1,2-dichlorobenzene:	ND<330	330			
benzyl alcohol:	ND<330	330			
bis-(2-chloroisopropyl):	ND<330	330			
2-methylphenol:	ND<330	330			
hexachloroethane:	ND<330	330			
n-nitroso-di-n-propyla:	ND<330	330	71/75	59-130	5%
4-methylphenol:	ND<330	330			
nitrobenzene:	ND<330	330			
isophorone:	ND<330	330			
2-nitrophenol:	ND<330	330			
2,4-dimethylphenol:	ND<330	330			
bis(2-chloroethoxy)met:	ND<330	330			
2,4-dichlorophenol:	ND<330	330			
1,2,4-trichlorobenzene:	ND<330	330	63/65	45-119	3%
naphthalene:	ND<330	330			
benzoic acid:	ND<330	330			
4-chloroaniline:	ND<330	330			
hexachlorobutadiene:	ND<330	330			
4-chloro-3-methylpheno:	ND<330	330	75/78	50-120	4%
2-methyl-naphthalene:	ND<330	330			
hexafluorocyclopentadie:	ND<330	330			
2,4,6-trichlorophenol:	ND<330	330			
2,4,5-trichlorophenol:	ND<800	800			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 30220

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
2-chloronaphthalene:	ND<330	330			
2-nitroaniline:	ND<800	800			
acenaphthylene:	ND<330	330			
dimethylphthlate:	ND<330	330			
2,6-dinitrotoluene:	ND<330	330			
acenaphthene:	ND<330	330	67/70	55-112	4%
3-nitroaniline:	ND<800	800			
2,4-dinitrophenol:	ND<800	800			
dibenzofuran:	ND<330	330			
2,4-dinitrotoluene:	ND<330	330	55/62	40-101	12%
4-nitrophenol:	ND<800	800	63/69	1-157	9%
fluorene:	ND<330	330			
4-chlorophenyl-phenyle:	ND<330	330			
diethylphthlate:	ND<330	330			
4-nitroaniline:	ND<800	800			
4,6-dinitro-2-methylph:	ND<800	800			
n-nitrosodiphenylamine:	ND<330	330			
4-bromo-phenyl-phenyle:	ND<330	330			
hexachlorobenzene:	ND<330	330			
pentachlorophenol:	ND<800	800	62/65	1-144	5%
phenanthrene:	ND<330	330			
anthracene:	ND<330	330			
di-n-butylphthlate:	ND<330	330			
fluoranthene:	ND<330	330			
benzidine:	ND<1700	1700			
pyrene:	ND<330	330	80/84	55-136	5%
butylbenzylphthlate:	ND<330	330			
3,3'-dichlorobenzidine:	ND<660	660			
benzo[a]anthracene:	ND<330	330			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 30220

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
chrysene:	ND<330	330			
bis(2-ethylhexyl)phtha:	ND<330	330			
di-n-octylphthalate:	ND<330	330			
benzo(b,k)fluoranthene:	ND<330	330			
benzo[a]pyrene:	ND<330	330			
indeno[1,2,3-cd]pyrene:	ND<330	330			
dibenzo[a,h]anthracene:	ND<330	330			
benzo[g,h,i]anthracene:	ND<330	330			
2-fluorophenol:	84			25-121	
phenol-d6:	87			24-113	
nitrobenzene-d5:	87			23-120	
2-fluorobiphenyl:	98			30-115	
2,4,6-tribromophenol:	83			19-122	
terphenyl-d14:	110			18-137	

Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

ug/Kg = Parts per billion (ppb)

QC File No. 30220

Senior Chemist
Account Manager

~~XXXX~~ 700 SR
 Fax copy of Lab Report and COC to Chevron Contact: Yes No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
 P.O. BOX 5004
 San Ramon, CA 94583
 FAX (415)842-9591

Chevron Facility Number 0006
 Facility Address 460 Grand Ave Oakland
 Consultant Project Number 0006-2
 Consultant Name Techstone Developments
 Address PO Box 2534 Santa Rosa
 Project Contact (Name) Jeff Monroe
 (Phone) 707 538 8816 (Fax Number) 538 8812

Chevron Contact (Name) Mark Miller
 (Phone) 510 842-8134
 Laboratory Name Superior
 Laboratory Release Number 8499660
 Samples Collected by (Name) Jeff Monroe
 Collection Date 1-21-94
 Signature Jeff Monroe

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks					
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)								
FB-3		1	S	D	10:27		Yes	X															
IX-21					10:29																		
IX-22					10:30																		
WD-9					10:32				X	X	X				X								
WD-10					10:33																		
WD-11					10:35																		

Please Initial: TM
 Samples Stored in ice 5 9:00
 Temperature of containers TM
 Boxes TM
 P.A.'s N/A

Relinquished By (Signature) Jeff Monroe Organization TD Date/Time 1-21-94 12:45 Received By (Signature) _____ Organization _____ Date/Time _____
 Relinquished By (Signature) _____ Organization _____ Date/Time _____ Received By (Signature) _____ Organization _____ Date/Time _____
 Relinquished By (Signature) _____ Organization _____ Date/Time _____ Received For Laboratory By (Signature) Tracy Bob, CI Date/Time 1/21/94 12:50

Turn Around Time (Circle Choice)
 24 Hrs.
 48 Hrs.
 5 Days
 10 Days
 As Contracted

COC-3/8/93 91/MCH



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 01/07/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15079- 1	SP-2-a-d	01/03/94	01/06/93 Soil
15079- 2	SP-3-a-d	01/03/94	01/06/93 Soil

RESULTS OF ANALYSIS

Laboratory Number: 15079- 1 15079- 2

Gasoline:	*47 ✓	*33 ✓
Benzene:	ND<0.05 ✓	ND<0.05 ✓
Toluene:	0.093	0.065
Ethyl Benzene:	0.26	0.054
Total Xylenes:	1.9	0.17
Diesel:	1200 ✓	220 ✓
Oil and Grease:	2500 ✓	100 ✓
Concentration:	mg/kg	mg/kg



C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 15079

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	96/106	10%	75-125
Benzene:	117/118	1%	72-125
Toluene:	105/108	3%	75-125
Ethyl Benzene:	109/113	4%	75-125
Total Xylenes:	110/116	5%	75-125
Diesel:	118/117	1%	48-162
Oil and Grease:	83/86	4%	75-125

* Does not match typical gasoline pattern.

Judy A. Nwogu

Senior Chemist
Account Manager



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 07-January-1994

ANALYSIS FOR CAM 17 METALS
California Administration Code Title 22, Paragraph 66700 & EPA Methods
SW-846 6010 & 7000 series.

Chronology	Laboratory Number 15079				
Identification	Sampled	Received	Extracted	Analyzed	Run # Lab #
SP-2 A-D	01/03/94	01/04/94	01/05/94	01/06/94	1



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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 07-January-1994

ANALYSIS FOR CAM 17 METALS

Laboratory Number	Sample Identification	Matrix
15079- 1	SP-2 A-D	Soil

RESULTS OF ANALYSIS
Laboratory Number: 15079- 1 *one*

Antimony	(Sb):	ND<5	
Arsenic	(As):	ND<1	
Barium	(Ba):	100	100
Beryllium	(Be):	0.6	.75
Cadmium	(Cd):	0.8	1
Chromium	(Cr):	18	5
Cobalt	(Co):	8	80
Copper	(Cu):	23	25
Lead	(Pb):	21	5
Mercury	(Hg):	ND<0.05	
Molybdenum	(Mo):	ND<5	
Nickel	(Ni):	25	20
Selenium	(Se):	ND<1	
Silver	(Ag):	ND<5	
Thallium	(Tl):	ND<5	
Vanadium	(V):	28	24
Zinc	(Zn):	67	250

Concentration: mg/Kg



Superior Precision Analytical, Inc.

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ANALYSIS FOR CAM 17 METALS Quality Assurance and Control Data - Soil

Laboratory Number 15079

Compound		Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Antimony	(Sb) :	ND<5	5	96/92	75-125	4%
Arsenic	(As) :	ND<1	1	111/119	75-125	7%
Barium	(Ba) :	ND<5	5	101/96	75-125	5%
Beryllium	(Be) :	ND<0.5	0.5	90/87	75-125	3%
Cadmium	(Cd) :	ND<0.5	0.5	102/98	75-125	4%
Chromium	(Cr) :	ND<5	5	93/89	75-125	4%
Cobalt	(Co) :	ND<5	5	99/93	75-125	6%
Copper	(Cu) :	ND<5	5	99/97	75-125	2%
Lead	(Pb) :	ND<5	5	101/96	75-125	5%
Mercury	(Hg) :	ND<0.05	0.05	88/93	75-125	6%
Molybdenum	(Mo) :	ND<5	5	101/99	75-125	2%
Nickel	(Ni) :	ND<5	5	98/94	75-125	4%
Selenium	(Se) :	ND<1	1	85/81	75-125	5%
Silver	(Ag) :	ND<5	5	105/100	75-125	5%
Thallium	(Tl) :	ND<5	5	98/91	75-125	7%
Vanadium	(V) :	ND<5	5	96/94	75-125	2%
Zinc	(Zn) :	ND<5	5	101/103	75-125	2%

Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/Kg = Parts per million (ppm)

QC File No. 15079

Senior Chemist
Account Manager



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 10-January-1994

ANALYSIS FOR SOLUBLE LEAD
by California Administrative Code Title 22 & SW-846 Method 6010

Chronology

Laboratory Number 15079

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SP-3 A-D	01/03/94	01/04/94	01/06/94	01/10/94		2



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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 10-January-1994

ANALYSIS FOR SOLUBLE LEAD

Laboratory Number	Sample Identification	Matrix
15079- 2	SP-3 A-D	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15079- 2

Soluble Lead (Pb): ND<0.5

Concentration: mg/L



Superior Precision Analytical, Inc.

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ANALYSIS FOR SOLUBLE LEAD Quality Assurance and Control Data - Extract

Laboratory Number 15079

Compound		Method Blank (mg/L)	RL (mg/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Soluble Lead	(Pb):	ND<0.5	0.5	102/97	75-125	5%

Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/L = Parts per million (ppm)

QC File No. 15079

 1/10/94

Senior Chemist
Account Manager



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 07-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 15079

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SP-2 A-D	01/03/94	01/04/94	/ /	01/06/94		1
SP-3 A-D	01/03/94	01/04/94	/ /	01/06/94		2



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-1
Reported 07-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
15079- 1	SP-2 A-D	Soil
15079- 2	SP-3 A-D	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15079- 1 15079- 2

Chloromethane/Vinyl Ch:	ND<10	ND<10
Bromomethane:	ND<5	ND<5
Chloroethane:	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5
Dichloromethane:	ND<5	ND<5
t-1,2-Dichloroethene:	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5
Chloroform:	ND<5	ND<5
1,1,1-Trichloroethane:	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5
1,2-Dichloroethane:	ND<5	ND<5
Trichloroethene:	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5
Tetrachloroethene:	38	ND<5
Dibromochloromethane:	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5
Bromoform:	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	6
1,2-Dichlorobenzene:	34	65
1,4-Dichlorobenzene:	ND<5	22
Concentration:	ug/Kg	ug/Kg

8010
kits



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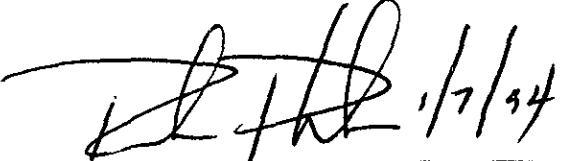
HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.
Quality Assurance and Control Data - Soil

Laboratory Number 15079

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Chloromethane/Vinyl Ch:	ND<10	10			
Bromomethane:	ND<5	5			
Chloroethane:	ND<5	5			
Trichlorofluoromethane:	ND<5	5			
1,1-Dichloroethene:	ND<5	5	116/125	65-154	7%
Dichloromethane:	ND<5	5			
t-1,2-Dichloroethene:	ND<5	5			
1,1-Dichloroethane:	ND<5	5			
c-1,2-Dichloroethene:	ND<5	5			
Chloroform:	ND<5	5			
1,1,1-Trichloroethane:	ND<5	5			
Carbon tetrachloride:	ND<5	5			
1,2-Dichloroethane:	ND<5	5			
Trichloroethene:	ND<5	5	101/106	73-161	5%
c-1,3-Dichloropropene:	ND<5	5			
1,2-Dichloropropane:	ND<5	5			
t-1,3-Dichloropropene:	ND<5	5			
Bromodichloromethane:	ND<5	5			
1,1,2-Trichloroethane:	ND<5	5			
Tetrachloroethene:	ND<5	5			
Dibromochloromethane:	ND<5	5			
Chlorobenzene:	ND<5	5	117/126	92-136	7%
Bromoform:	ND<5	5			
1,1,2,2-Tetrachloroeth:	ND<5	5			
1,3-Dichlorobenzene:	ND<5	5			
1,2-Dichlorobenzene:	ND<5	5			
1,4-Dichlorobenzene:	ND<5	5			

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/Kg = Parts per billion (ppb)
 QC File No. 15079


 Senior Chemist
 Account Manager



Superior Precision Analytical, Inc.

1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Chronology		Laboratory Number 15079				
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SP-2-a-d	01/03/94	01/04/94	01/04/94	01/05/94		1
SP-3-a-d	01/03/94	01/04/94	01/04/94	01/05/94		2



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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15079- 1	SP-2-a-d	Soil
15079- 2	SP-3-a-d	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15079- 1 15079- 2

bis(2-chloroethyl)ethane:	ND<3300	ND<3300
aniline:	ND<3300	ND<3300
phenol:	ND<3300	ND<3300
2-chlorophenol:	ND<3300	ND<3300
1,3-dichlorobenzene:	ND<3300	ND<3300
1,4-dichlorobenzene:	ND<3300	ND<3300
1,2-dichlorobenzene:	ND<3300	ND<3300
benzyl alcohol:	ND<3300	ND<3300
bis-(2-chloroisopropyl):	ND<3300	ND<3300
2-methylphenol:	ND<3300	ND<3300
hexachloroethane:	ND<3300	ND<3300
n-nitroso-di-n-propylamine:	ND<3300	ND<3300
4-methylphenol:	ND<3300	ND<3300
nitrobenzene:	ND<3300	ND<3300
isophorone:	ND<3300	ND<3300
2-nitrophenol:	ND<3300	ND<3300
2,4-dimethylphenol:	ND<3300	ND<3300
bis(2-chloroethoxy)methane:	ND<3300	ND<3300
2,4-dichlorophenol:	ND<3300	ND<3300
1,2,4-trichlorobenzene:	ND<3300	ND<3300
naphthalene:	ND<3300	ND<3300
benzoic acid:	ND<3300	ND<3300
4-chloroaniline:	ND<3300	ND<3300
hexachlorobutadiene:	ND<3300	ND<3300
4-chloro-3-methylphenol:	ND<3300	ND<3300
2-methyl-naphthalene:	ND<3300	ND<3300
hexachlorocyclopentadiene:	ND<3300	ND<3300
2,4,6-trichlorophenol:	ND<3300	ND<3300
2,4,5-trichlorophenol:	ND<8000	ND<8000

Concentration: ug/Kg ug/Kg



Superior Precision Analytical, Inc.

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TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15079- 1	SP-2-a-d	Soil
15079- 2	SP-3-a-d	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15079- 1 15079- 2

2-chloronaphthalene:	ND<3300	ND<3300
2-nitroaniline:	ND<8000	ND<8000
acenaphthylene:	ND<3300	ND<3300
dimethylphthlate:	ND<3300	ND<3300
2,6-dinitrotoluene:	ND<3300	ND<3300
acenaphthene:	ND<3300	ND<3300
3-nitroaniline:	ND<8000	ND<8000
2,4-dinitrophenol:	ND<8000	ND<8000
dibenzofuran:	ND<3300	ND<3300
2,4-dinitrotoluene:	ND<3300	ND<3300
4-nitrophenol:	ND<8000	ND<8000
fluorene:	ND<3300	ND<3300
4-chlorophenyl-phenyle:	ND<3300	ND<3300
diethylphthlate:	ND<3300	ND<3300
4-nitroaniline:	ND<8000	ND<8000
4,6-dinitro-2-methylph:	ND<8000	ND<8000
n-nitrosodiphenylamine:	ND<3300	ND<3300
4-bromo-phenyl-phenyle:	ND<3300	ND<3300
hexachlorobenzene:	ND<3300	ND<3300
pentachlorophenol:	ND<8000	ND<8000
phenanthrene:	ND<3300	ND<3300
anthracene:	ND<3300	ND<3300
di-n-butylphthlate:	ND<3300	ND<3300
fluoranthene:	ND<3300	ND<3300
benzidine:	ND<17000	ND<17000
pyrene:	ND<3300	ND<3300
butylbenzylphthlate:	ND<3300	ND<3300
3,3'-dichlorobenzidine:	ND<6600	ND<6600
benzo[a]anthracene:	ND<3300	ND<3300

Concentration: ug/Kg ug/Kg



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-1
Reported 06-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
15079- 1	SP-2-a-d	Soil
15079- 2	SP-3-a-d	Soil

RESULTS OF ANALYSIS

Laboratory Number: 15079- 1 15079- 2

chrysene:	ND<3300	ND<3300
bis(2-ethylhexyl)phtha:	ND<3300	ND<3300
di-n-octylphthalate:	ND<3300	ND<3300
benzo(b,k)fluoranthene:	ND<3300	ND<3300
benzo[a]pyrene:	ND<3300	ND<3300
indeno[1,2,3-cd]pyrene:	ND<3300	ND<3300
dibenzo[a,h]anthracene:	ND<3300	ND<3300
benzo[g,h,i]anthracene:	ND<3300	ND<3300

Concentration: ug/Kg ug/Kg

-- Surrogate % Recoveries --

2-fluorophenol:	73	87
phenol-d6:	81	94
nitrobenzene-d5:	77	102
2-fluorobiphenyl:	79	92
2,4,6-tribromophenol:	92	119
terphenyl-d14:	75	85



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS
Quality Assurance and Control Data - Soil

Laboratory Number 15079

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
bis(2-chloroethyl) ethe:	ND<330	330			
aniline:	ND<330	330			
phenol:	ND<330	330	74/74	26-90	0%
2-chlorophenol:	ND<330	330	81/82	11-120	1%
1,3-dichlorobenzene:	ND<330	330			
1,4-dichlorobenzene:	ND<330	330	78/79	1-154	1%
1,2-dichlorobenzene:	ND<330	330			
benzyl alcohol:	ND<330	330			
bis-(2-chloroisopropyl):	ND<330	330			
2-methylphenol:	ND<330	330			
hexachloroethane:	ND<330	330			
n-nitroso-di-n-propyla:	ND<330	330	93/94	11-133	1%
4-methylphenol:	ND<330	330			
nitrobenzene:	ND<330	330			
isophorone:	ND<330	330			
2-nitrophenol:	ND<330	330			
2,4-dimethylphenol:	ND<330	330			
bis(2-chloroethoxy)met:	ND<330	330			
2,4-dichlorophenol:	ND<330	330			
1,2,4-trichlorobenzene:	ND<330	330	75/76	1-139	1%
naphthalene:	ND<330	330			
benzoic acid:	ND<330	330			
4-chloroaniline:	ND<330	330			
hexachlorobutadiene:	ND<330	330			
4-chloro-3-methylpheno:	ND<330	330	79/81	11-122	3%
2-methyl-naphthalene:	ND<330	330			
hexafluorocyclopentadie:	ND<330	330			
2,4,6-trichlorophenol:	ND<330	330			
2,4,5-trichlorophenol:	ND<800	800			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 15079

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
2-chloronaphthalene:	ND<330	330			
2-nitroaniline:	ND<800	800			
acenaphthylene:	ND<330	330			
dimethylphthlate:	ND<330	330			
2,6-dinitrotoluene:	ND<330	330			
acenaphthene:	ND<330	330	86/87	20-131	1%
3-nitroaniline:	ND<800	800			
2,4-dinitrophenol:	ND<800	800			
dibenzofuran:	ND<330	330			
2,4-dinitrotoluene:	ND<330	330	76/79	7-111	4%
4-nitrophenol:	ND<800	800	85/92	1-118	8%
fluorene:	ND<330	330			
4-chlorophenyl-phenyle:	ND<330	330			
diethylphthlate:	ND<330	330			
4-nitroaniline:	ND<800	800			
4,6-dinitro-2-methylph:	ND<800	800			
n-nitrosodiphenylamine:	ND<330	330			
4-bromo-phenyl-phenyle:	ND<330	330			
hexachlorobenzene:	ND<330	330			
pentachlorophenol:	ND<800	800	96/97	1-119	1%
phenanthrene:	ND<330	330			
anthracene:	ND<330	330			
di-n-butylphthlate:	ND<330	330			
fluoranthene:	ND<330	330			
benzidine:	ND<1700	1700			
pyrene:	ND<330	330	86/83	20-156	4%
butylbenzylphthlate:	ND<330	330			
3,3'-dichlorobenzidine:	ND<660	660			
benzo[a]anthracene:	ND<330	330			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 15079

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
rysene:	ND<330	330			
s(2-ethylhexyl)phtha:	ND<330	330			
-n-octylphthalate:	ND<330	330			
enzo(b,k)fluoranthene:	ND<330	330			
enzo[a]pyrene:	ND<330	330			
deno[1,2,3-cd]pyrene:	ND<330	330			
benzo[a,h]anthracene:	ND<330	330			
enzo[g,h,i]anthracene:	ND<330	330			
fluorophenol:	68			25-121	
enol-d6:	75			24-113	
trobenzene-d5:	67			23-120	
fluorobiphenyl:	70			30-115	
4,6-tribromophenol:	89			19-122	
rphenyl-d14:	77			18-137	

Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- ug/Kg = Parts per billion (ppb)
- C File No. 15079


 Senior Chemist
 Account Manager

Fax copy of Lab Report and COC to Chevron Contact: Yes No

12017

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 0006
Facility Address 460 Grand Ave. Oakland
Consultant Project Number 0006-1
Consultant Name Touchstone Dev.
Address PO BOX 2554 Santa Rosa
Project Contact (Name) J Menroae
(Phone) 7075388818 (Fax Number) 5388812

Chevron Contact (Name) Mark Miller
(Phone) 510 842 8134
Laboratory Name Superior
Laboratory Release Number 8499660
Samples Collected by (Name) Jeff Menroae
Collection Date 1-3-94
Signature Jeff Menroae

Sample Number	Lab Sample Number	Number of Containers	Matrix			Type	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed										Remarks					
			S = Soil	A = Air	W = Water					C = Charcoal	G = Grab	Com = Composite	D = Discrete	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)		Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)			
SP-2ad		4	S						Yes	X	X	X	X	X	X	X	X								
SP-3ad		4	S						Yes	X	X	X	X	X	X	X	X								48 hr FAST

Please Initial: UE
 Samples Stored in ice ✓
 Appropriate containers ✓
 Samples ✓
 VOA's ✓
 Comments: _____

Told Jess
72 hr was
fastest.

COC-3.0mg/03 91/HCH

Relinquished By (Signature) <u>Jeff Menroae</u>	Organization <u>TD</u>	Date/Time <u>1-4-94 12:25</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) <input checked="" type="radio"/> 24 Hrs. <input type="radio"/> 48 Hrs. <input type="radio"/> 5 Days <input type="radio"/> 10 Days <input type="radio"/> As Contracted
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Changard</u>	Organization _____	Date/Time <u>1/4/94 12:25</u>	



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

TOUCHSTONE DEVELOPMENTS
Attn: JEFF MONROE

Project 0006-2
Reported 01/20/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30209- 1	ASP-4A-D	01/19/94	01/19/94 Soil
30209- 2	ASP-5A-D	01/19/94	01/19/94 Soil
30209- 3	ASP-6A-D	01/19/94	01/19/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 30209- 1 30209- 2 30209- 3

Gasoline:	33 ✓	88 ✓	36 ✓
Benzene:	ND<.005 ✓	0.006 ✓	ND<.005 ✓
Toluene:	0.096	0.19	0.11
Ethyl Benzene:	0.086	0.19	0.067
Total Xylenes:	1.0	2.4	0.72
Concentration:	mg/kg	mg/kg	mg/kg



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

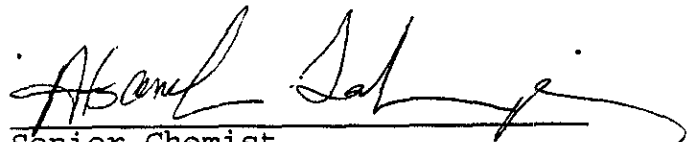
Page 2 of 2
QA/QC INFORMATION
SET: 30209

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	124/117	6%	70-130
Benzene:	118/110	7%	70-130
Toluene:	113/107	5%	70-130
Ethyl Benzene:	110/100	10%	70-130
Total Xylenes:	118/108	9%	70-130


Senior Chemist

SDR

Fax copy of Lab Report and COC to Chevron Contact: Yes No

Chain-of-Custody-Record

<p>Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591</p>	<p>Chevron Facility Number <u>0006</u> Facility Address <u>760 Grand Ave, Oakland</u> Consultant Project Number <u>0006-7</u> Consultant Name <u>Touchstone Developments</u> Address <u>PO Box 2554, Santa Rosa CA</u> Project Contact (Name) <u>Jeff Monroe</u> (Phone) <u>707 538 8818</u> (Fax Number) <u>538 8812</u></p>	<p>Chevron Contact (Name) <u>Mark Miller</u> (Phone) <u>510 842 8134</u> Laboratory Name <u>Suprema</u> Laboratory Release Number <u>8499660</u> Samples Collected by (Name) <u>Jeff Monroe</u> Collection Date <u>1-19-94</u> Signature <u>Jeff Monroe</u></p>
--	---	---

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Chemical	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed												Remarks					
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)										
ASP-4a-d		4	S	C	10:30		Yes	X																2 Composite 3 4 into 1	
ASP-5a-d		↓	↓	C	10:35		↓	↓																	
ASP-6a-d		↓	↓	C	10:40		↓	↓																	

None Initial
 Samples Stored
 Samples Analyzed
 Samples Released
 Samples Destroyed
 Samples Returned

Relinquished By (Signature) <u>Jeff Monroe</u>	Organization <u>C.D.</u>	Date/Time <u>1-19-94</u>	Received By (Signature) <u>M. Vann</u>	Organization <u>SUPREMA</u>	Date/Time <u>01/19/94</u>	Turn Around Time (Circle Choice) <input checked="" type="radio"/> 24 Hrs. <input type="radio"/> 48 Hrs. <input type="radio"/> 5 Days <input type="radio"/> 10 Days <input type="radio"/> As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	

DOC-3336/03 97/HCH



Superior Precision Analytical, Inc.

1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647-2081 / fax (415) 821-7123

TOUCHSTONE DEVELOPMENTS (SR)
Attn: JEFF MONROE

Project 0006-2
Reported 01/27/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15158- 1	ASP-7-A-D	01/26/94	01/26/94 Soil
15158- 2	ASP-8-A-D	01/26/94	01/27/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 15158- 1 15158- 2

Gasoline:	53	14
Benzene:	ND<0.05	0.29
Toluene:	0.059	0.89
Ethyl Benzene:	0.23	0.27
Total Xylenes:	1.8	1.3
Concentration:	mg/kg	mg/kg



Superior Precision Analytical, Inc.

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C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 15158

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	93/96	3%	75-125
Benzene:	111/113	2%	72-125
Toluene:	109/112	3%	75-125
Ethyl Benzene:	112/114	2%	75-125
Total Xylenes:	111/113	2%	75-125

Cecilia G. Joaquin
Senior Chemist
Account Manager

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 0006
Facility Address 460 GRAND AVE, OAKLAND
Consultant Project Number 0006-2
Consultant Name TOUCHSTONE Developments
Address PO Box 2654, SANTA ROSA
Project Contact (Name) Jeff Monroe
(Phone) 707-538-8818 (Fax Number) 707-538-8812

Chevron Contact (Name) MARK MILLER
(Phone) 510-842-8134
Laboratory Name Superior
Laboratory Release Number 8499660
Samples Collected by (Name) M. Tambrown
Collection Date 1-26-94
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										Remarks			
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						
ASP-7a-d		4	S	C	1200		Yes	X													
ASP-8a-d		4	S	C	1208		Yes	X													
<div style="border: 2px solid black; padding: 10px; transform: rotate(-15deg); display: inline-block;"> <p>Please Initial: Sample Storage Preparation Samples Received VOC Comments</p> </div>																					

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>TD</u>	Date/Time <u>1-26-94</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	Turn Around Time (Circle Choice) <u>24 Hrs.</u> 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>1/26/94 6:40pm</u>	

COC-3.DWG/07 81/10/94