

Chevron



November 30, 1994

**Chevron U.S.A. Products Company**  
6001 Bollinger Canyon Rd., Bldg. L  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Site Assessment & Remediation Group**  
Phone (510) 842-9500

Ms. Jennifer Eberle  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Former Chevron Service Station #9-4587**  
**609 Oak Street, Oakland, CA**

Dear Ms. Eberle:

Enclosed is the Tank Removal and Excavation Report dated November 18, 1994, prepared by our consultant Touchstone Developments for the above referenced site. As indicated in the report, two 10,000 gallon and one 6,000 gallon single wall fiberglass underground fuel storage tanks, product islands, and associated product piping were removed on October 17, 1994.

Soil samples collected beneath the former fuel tanks and product piping were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Although ground water was present in the tank pit, a sample was not collected for analysis since quarterly monitoring over the past five years has adequately characterized ground water conditions. A hydrocarbon sheen was noted on the water surface. All analytical data is summarized in Tables A and B of the report.

Approximately 300 cubic yards of soil excavated during the tank removal was aerated to below method detection limits and transported to Redwood Landfill in Novato, CA. Currently, loose soils present in the tank pit following the tank removal have been excavated and are aerating at the site. We are currently evaluating what economic remedial alternatives are available. We will keep you informed of our progress.

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

Sincerely,  
CHEVRON U.S.A. PRODUCTS COMPANY

  
Mark A. Miller  
Site Assessment and Remediation Engineer

Enclosure

cc: Ms. Kate McCutchen, Geraghty & Miller - Richmond  
Ms. B.C. Owen



Page 2  
November 30, 1994  
Former SS#9-4587

Mr. Dewey Bargiacchi  
The Paris Company  
8520 Pardee  
Oakland, CA 94621

Mr. James Kimberlin  
1100 Howe Avenue #415  
Sacramento, CA 94825

Mr. William Kimberlin  
51 Eureka Street  
Kensington, CA 94707

File: 9-4587 TR1



**Tank Removal and Excavation Report**  
**Chevron Service Station Number 9-4587**  
**609 Oak Street**  
**Oakland, California**

prepared for

**Chevron U.S.A. Products Company**  
**P.O. Box 5004**  
**San Ramon, California**

prepared by

**Touchstone Developments**

**November 18, 1994**

# **Tank Removal and Excavation Report**

**Chevron Service Station Number 9-4587**

**609 Oak Street**

**Oakland, California**

prepared for

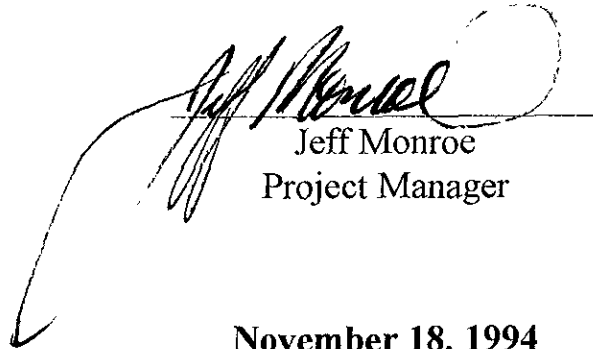
**Chevron U.S.A. Products Company**

**P.O. Box 5004**

**San Ramon, California**

prepared by

**Touchstone Developments**



Jeff Monroe  
Project Manager

**November 18, 1994**

## INTRODUCTION

Touchstone Developments (Touchstone) was contracted by Chevron U.S.A. Products Company to document tank removal and perform sampling services at the Chevron Service Station number 9-4587 (Figure 1). The following on-site activities were performed at 609 Oak Street in Oakland, California, on October 17, 1994:

- \* Three underground product storage tanks (USTs) were abandoned and removed (Figure 2), with the subsequent sampling of the soil at the excavation sidewalls.
- \* Product line piping and dispensers were removed and the area excavated to approximately three feet below grade surface (bgs) for sampling at representative points (Figure 2).
- \* Soil stockpiles generated during tank excavation were sampled (Figure 2).

The purpose of this report is to summarize and document on-site activities.

## SITE CONDITIONS AND ACTIVITIES

The site is a former Chevron service station, located at the intersection of Oak Street and Sixth Street in Oakland. The site is currently occupied by a car wash facility. Subsurface soils were observed to be predominately silty clays. Groundwater was observed on-site during field activities at approximately 12.5 feet bgs.

### UST and Associated Piping Removal Activities

Tank removal, and excavation services were performed by Golden West Environmental Service of Livermore. A Touchstone representative was on-site to observe the removal/excavation activities, and to collect soil samples from the excavation and associated stockpiled soil. Ms. Jennifer Eberle from the Alameda County Environmental Health Department was present during the tank removals and observed sampling of soil. Also on-site were Mr. Mark Miller and Ms. Belinda Erdelt of Chevron U.S.A. Transportation and disposal of the USTs and associated piping was accomplished by Erickson, Inc. of Richmond, California.

### UST Removal and Sampling

Two 10,000 gallon and one 6,000 gallon single-walled fiberglass product tanks, were removed (Figure 2). Each tank formerly contained gasoline. No holes were observed. Seven soil samples were collected from the sidewalls of the excavation (EN, ES, SE, SW, WN, NW, NE), at depths ranging from nine feet to eleven feet bgs. Groundwater was encountered during removal activities at approximately twelve and a half feet bgs but was not sampled due to the monitoring wells and remediation system in place on-site. A sheen was noted on the water. Analytical results for soil samples are presented in Table A.

### Product Line Removal and Sampling

Pump islands and product piping were removed during the tank removal on October 17, 1994. Soil samples P-1, through P-6 were collected from beneath the former pump islands and product lines at depths ranging from two and a half to three feet bgs. Sample locations are illustrated in Figure 2 and analytical results are presented in Table A.

### Stockpile Sampling and Disposal

Soil generated during tank removal and product piping removal were stockpiled on-site. Samples (SP-1-a-d through SP-3-a-d, Figure 2) were collected for approximately every 100 cubic yards for purposes of disposal. The stockpile was resampled on November 8, 1994 (ASP-2-a-d, ASP-3-a-d, Figure 3) to verify residual hydrocarbon levels after aeration. Analytical results revealed nondetectable levels of hydrocarbons in the stockpile. Analytical results from stockpile samples are presented in Table B.

Transportation of soil was accomplished by Stamco/Allwaste Trucking. Approximately three hundred cubic yards was transported to Redwood Landfill on November 18, 1994.

## **SAMPLING PROTOCOL**

### UST Soil Sampling

Soil samples were collected from the excavator bucket by removing the top few inches of soil and pushing a clean, six-inch-long (two inch 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., located in Martinez, California, a State-certified laboratory.

### Stockpile Sampling

Four discrete stockpile samples were collected for approximately every 100 cubic yards of soil generated. The four samples were composited into one by the laboratory. These samples were collected by removing the top 8 to 12 inches of soil in each stockpile, then pushing a sample tube into the soil until completely full. The samples were sealed, labeled and handled as described previously in this report.

### **SAMPLE ANALYSIS**

Soil and samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-gasoline) according to EPA Method 8015 (modified), benzene, toluene, ethylbenzene and xylenes (BTEX) according to EPA Method 8020. Select samples were also analyzed for organic lead or total lead content. For the specific soil sample analysis, please refer to Tables A and B. Copies of the analytical laboratory reports and Chain-of-Custody forms are presented in Appendix A.

## TABLES



## TABLE B SOIL STOCKPILE SAMPLE RESULTS

CHEVRON STATION 9-4587

SAMPLE ID	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Xylene (ppm)	Organic Lead (ppm)
SP-1-a-d	Superior	10/17/94	89	0.16	0.46	0.55	4.7	ND<2 ✓
SP-2-a-d	Superior	10/17/94	210	0.50	3.8	2.3	13	NA
SP-3-a-d	Superior	10/17/94	120	ND<0.025	0.10	0.50	2.8	NA
ASP-2-a-d	Superior	11/8/94 ✓	ND<1 ✓	ND<0.005 ✓	ND<0.005	ND<0.005	ND<0.005	NA
ASP-3-a-d	Superior	11/8/94	ND<1 ✓	ND<0.005 ✓	ND<0.005	ND<0.005	ND<0.005	NA

TPH-Gasoline = Total petroleum hydrocarbons calculated as gasoline

ND=Not detected at or above the laboratory detection limits

NA = Analysis not requested

**FIGURES**

# TABLE A UST AND PRODUCT PIPING SAMPLING SUMMARY

CHEVRON STATION 9-4587

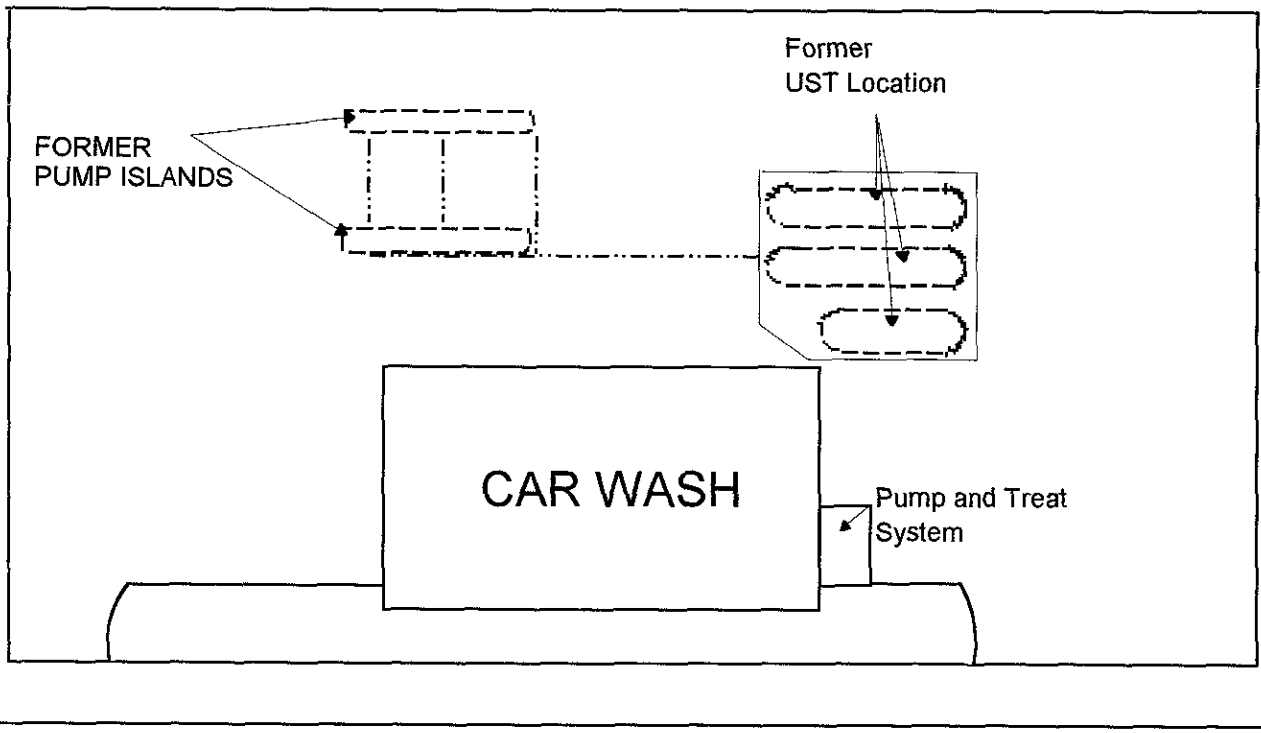
## UST REMOVAL SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Xylene (ppm)	Total Lead (ppm)
SE	11	Superior	10/17/94	600	3.6	11	9.0	37	11
SW	9	Superior	10/17/94	18	0.093	0.16	0.36	1.2	10
ES	10	Superior	10/17/94	42	0.24	0.22	0.32	1.6	ND<2
EN	11	Superior	10/17/94	2	0.27	0.12	0.023	0.12	ND<2
NE	10.5	Superior	10/17/94	3700	27	200	69	400	ND<2
NW	10.5	Superior	10/17/94	5	0.52	0.16	0.091	0.44	13
WN	10.5	Superior	10/17/94	40	0.2	0.12	0.81	2.4	ND<2

## PRODUCT PIPING REMOVAL SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Xylene (ppm)	Total Lead (ppm)
P-1	3	Superior	10/17/94	1400	5	82	30	220	14
P-2	2.5	Superior	10/17/94	260	0.26	3	1.7	16	ND<2
P-3	2.5	Superior	10/17/94	380	ND<0.1	15	5.9	39	ND<2
P-4	2.5	Superior	10/17/94	410	0.36	4.4	2.3	33	12
P-5	2.5	Superior	10/17/94	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<2
P-6	3	Superior	10/17/94	29	0.021	0.042	0.091	0.16	6

TPH-Gasoline = Total petroleum hydrocarbons calculated as gasoline  
 ND=Not detected at or above the laboratory detection limit



**EXPLANATION**

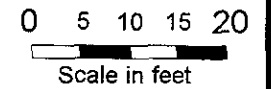
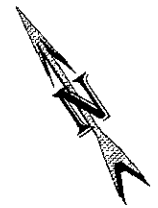
UST = Underground Storage tank

WX ● APPROXIMATE LOCATION OF EXCAVATION SOIL SAMPLE

● STOCKPILE SOIL

--- FORMER UNDERGROUND STRUCTURE

- - - - FORMER PRODUCT PIPING LOCATION



**SITE PLAN**

CHEVRON SERVICE STATION NO. 9-4587  
609 OAK STREET  
SAN JOSE, CALIFORNIA

FIGURE

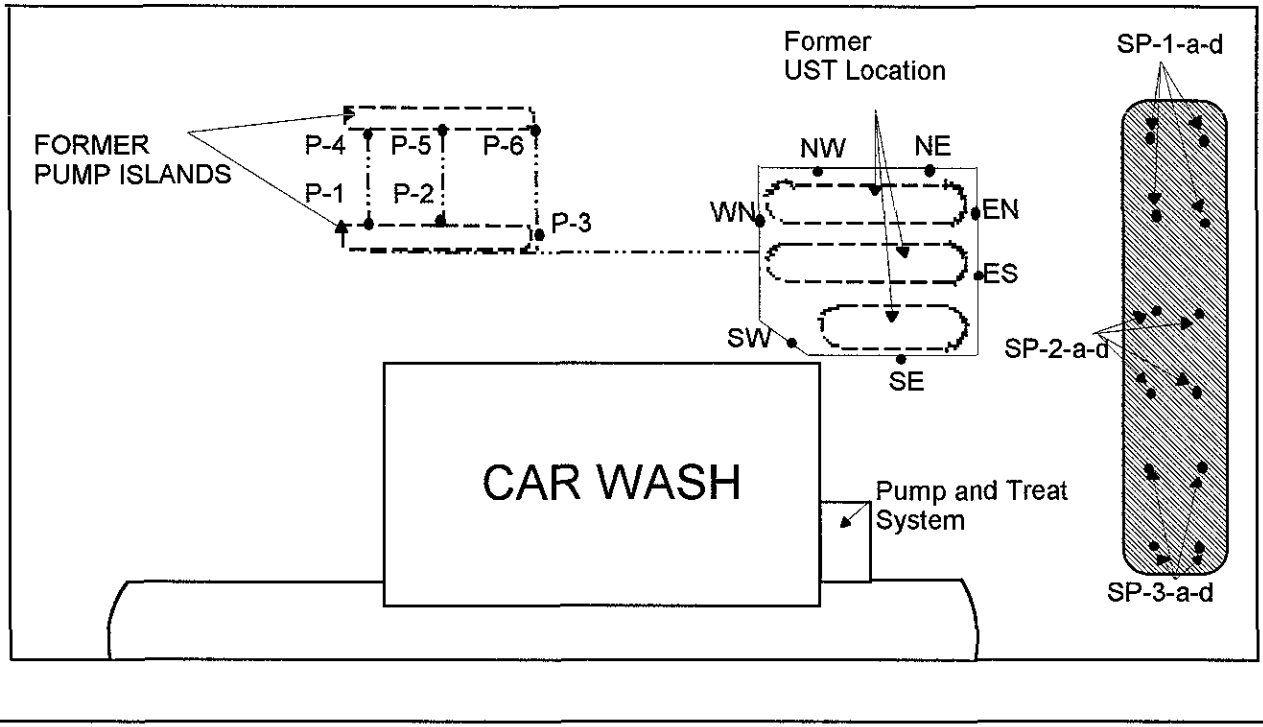
**1**

PROJECT NO.  
4587-1

DRAWN BY:  
AMD

DATE  
11/14/94

BASE MAP  
Groundwater Technology



**EXPLANATION**

UST = Underground Storage tank

WX ● APPROXIMATE LOCATION OF EXCAVATION SOIL SAMPLE

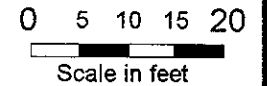
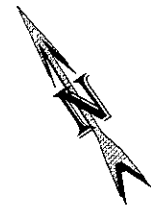
● STOCKPILE SOIL

--- FORMER UNDERGROUND STRUCTURE

... FORMER PRODUCT PIPING LOCATION

6th STREET

OAK STREET



**SAMPLE LOCATIONS**

CHEVRON SERVICE STATION NO. 9-4587  
609 OAK STREET  
SAN JOSE, CALIFORNIA

FIGURE

**2**

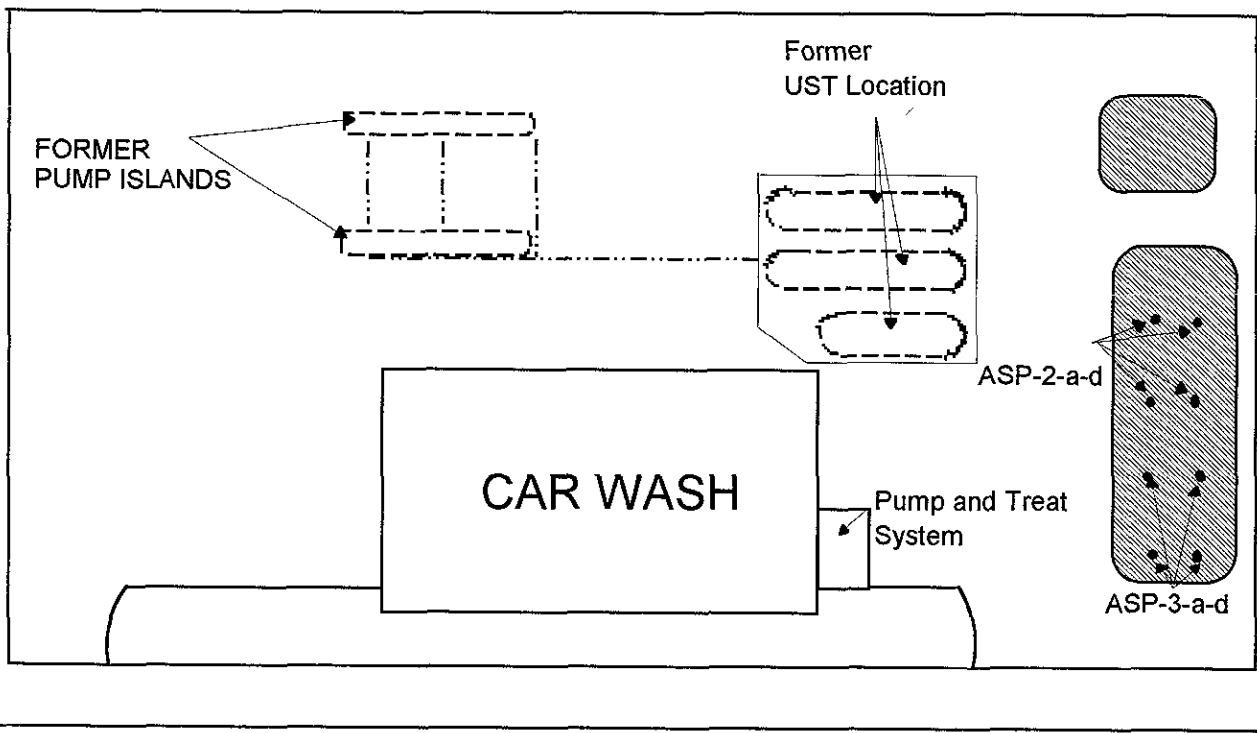


PROJECT NO  
4587-1

DRAWN BY:  
AMD

DATE  
11/14/94

BASE MAP:  
Groundwater Technology



**EXPLANATION**

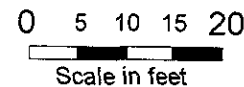
UST = Underground Storage tank

WX ● APPROXIMATE LOCATION OF EXCAVATION SOIL SAMPLE

STOCKPILE SOIL

FORMER UNDERGROUND STRUCTURE

FORMER PRODUCT PIPING LOCATION



**ADDITIONAL STOCKPILE SAMPLE LOCATIONS** FIGURE

CHEVRON SERVICE STATION NO. 9-4587  
609 OAK STREET  
SAN JOSE, CALIFORNIA

**3**

PROJECT NO.  
4587-1

DRAWN BY:  
AMD

DATE  
11/14/94

BASE MAP  
Groundwater Technology

**APPENDIX A**

**LABORATORY RESULTS**



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-2  
Reported 10/26/94

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30806- 1	SP 1a-d	10/17/94	10/25/94 Soil
30806- 2	SP 2a-d	10/17/94	10/25/94 Soil
30806- 3	SP 3a-d	10/17/94	10/25/94 Soil
30806- 4	SE	10/17/94	10/24/94 Soil
30806- 5	SW	10/17/94	10/25/94 Soil
30806- 6	ES	10/17/94	10/25/94 Soil
30806- 7	EN	10/17/94	10/24/94 Soil
30806- 8	NE	10/17/94	10/25/94 Soil
30806- 9	NW	10/17/94	10/24/94 Soil
30806-10	WN	10/17/94	10/24/94 Soil

## RESULTS OF ANALYSIS

Laboratory Number: 30806- 1    30806- 2    30806- 3    30806- 4 *SE*    30806- 5 *SW*

Gasoline:	89	210	120	600 ✓	18 ✓
Benzene:	0.16	0.50	ND<.025	3.6 ✓	0.093 ✓
Toluene:	0.46	3.8	0.10	11	0.16
Ethyl Benzene:	0.55	2.3	0.50	9.0	0.36
Total Xylenes:	4.7	13	2.8	37	1.2

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

Laboratory Number: 30806- 6 *ES*    30806- 7 *EN*    30806- 8 *NE*    30806- 9 *NW*    30806-10 *WN*

Gasoline:	42 ✓	2 ✓	3700 ✓	5 ✓	40 ✓
Benzene:	0.24 ✓	0.27 ✓	27 ✓	0.52 ✓	0.2 ✓
Toluene:	0.22	0.12	200	0.16	0.12
Ethyl Benzene:	0.32	0.023	69	0.091	0.81
Total Xylenes:	1.6	0.12	400	0.44	2.4

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





# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-2  
Reported 10/26/94

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30806-11	P-1	10/17/94	10/25/94 Soil
30806-12	P-2	10/17/94	10/24/94 Soil
30806-13	P-3	10/17/94	10/26/94 Soil
30806-14	P-4	10/17/94	10/24/94 Soil
30806-15	P-5	10/17/94	10/24/94 Soil
30806-16	P-6	10/17/94	10/24/94 Soil

## RESULTS OF ANALYSIS

Laboratory Number: 30806-11    30806-12    30806-13    30806-14    30806-15

Gasoline:	1400 ✓	260 ✓	380 ✓	410 ✓	ND<1 ✓
Benzene:	5.0 ✓	0.26 ✓	ND<0.1 ✓	0.36 ✓	ND<.005 ✓
Toluene:	82	3.0	15	4.4	ND<.005
Ethyl Benzene:	30	1.7	5.9	2.3	ND<.005
Total Xylenes:	220	16	39	33	ND<.005
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Laboratory Number: 30806-16

Gasoline:	29 ✓
Benzene:	0.021 ✓
Toluene:	0.042
Ethyl Benzene:	0.091
Total Xylenes:	0.16
Concentration:	mg/kg



CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 30806

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

Table with 4 columns: ANALYTE, MS/MSD RECOVERY, RPD, CONTROL LIMIT. Rows include Gasoline, Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

Signature of Michael R. Vucora
Senior Chemist

Certified Laboratories



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-2  
Reported 26-October-1994

ANALYSIS FOR TOTAL LEAD  
by EPA Method SW-846 6010

Chronology					Laboratory Number 30806	
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SE	10/17/94	10/19/94	10/24/94	10/24/94		4
SW	10/17/94	10/19/94	10/24/94	10/24/94		5
ES	10/17/94	10/19/94	10/24/94	10/24/94		6
EN	10/17/94	10/19/94	10/24/94	10/24/94		7
NE	10/17/94	10/19/94	10/24/94	10/24/94		8
NW	10/17/94	10/19/94	10/24/94	10/24/94		9
WN	10/17/94	10/19/94	10/24/94	10/24/94		10
P-1	10/17/94	10/19/94	10/24/94	10/24/94		11
P-2	10/17/94	10/19/94	10/24/94	10/24/94		12
P-3	10/17/94	10/19/94	10/24/94	10/24/94		13
P-4	10/17/94	10/19/94	10/24/94	10/24/94		14
P-5	10/17/94	10/19/94	10/24/94	10/24/94		15
P-6	10/17/94	10/19/94	10/25/94	10/25/94		16



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS

Project 4587-2  
Report 26-October-1994

## ANALYSIS FOR TOTAL LEAD

Laboratory Number	Sample Identification	Matrix
30806- 4	SE	Soil
30806- 5	SW	Soil
30806- 6	ES	Soil
30806- 7	EN	Soil
30806- 8	NE	Soil
30806- 9	NW	Soil
30806-10	WN	Soil
30806-11	P-1	Soil
30806-12	P-2	Soil
30806-13	P-3	Soil

## RESULTS OF ANALYSIS

Laboratory Number:	30806- 4	30806- 5	30806- 6	30806- 7	30806- 8
--------------------	----------	----------	----------	----------	----------

TOTAL LEAD:	11 /	10 /	ND<2 /	ND<2 /	ND<2 /
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Laboratory Number:	30806- 9	30806-10	30806-11	30806-12	30806-13
--------------------	----------	----------	----------	----------	----------

TOTAL LEAD:	13 /	ND<2 /	14 /	ND<2 /	ND<2 /
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-2  
Reported 27-October-1994

## ANALYSIS FOR TOTAL LEAD

Laboratory Number	Sample Identification	Matrix
30806-14	P-4	Soil
30806-15	P-5	Soil
30806-16	P-6	Soil

## RESULTS OF ANALYSIS

Laboratory Number:	30806-14	30806-15	30806-16
TOTAL LEAD:	12	ND<2	6
Concentration:	mg/Kg	mg/Kg	mg/Kg



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

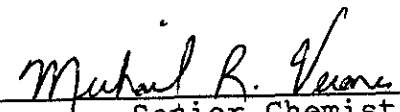
## ANALYSIS FOR TOTAL LEAD Quality Assurance and Control Data - Soil

Laboratory Number 30806

Compound	Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
TOTAL LEAD:	ND<2	2	113/122	75-125	8%

### Definitions:

ND = Not Detected  
 RPD = Relative Percent Difference  
 RL = Reporting Limit  
 mg/Kg = Parts per million (ppm)  
 QC File No. 30806

  
 Senior Chemist  
 Account Manager



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-2  
Reported 26-October-1994

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ANALYSIS FOR TOTAL ORGANIC LEAD  
by California LUFT Method

Chronology					Laboratory Number 30806	
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SP 1a-d	10/17/94	10/19/94	10/26/94	10/26/94		1



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-2  
Reported 26-October-1994

## ANALYSIS FOR TOTAL ORGANIC LEAD

Laboratory Number	Sample Identification	Matrix
30806- 1	SP 1a-d	Soil

### RESULTS OF ANALYSIS

Laboratory Number: 30806- 1

ORGANIC LEAD: ND<2

Concentration: mg/Kg





# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## ANALYSIS FOR TOTAL ORGANIC LEAD Quality Assurance and Control Data - Soil

Laboratory Number 30806

Compound	Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
ORGANIC LEAD:	ND<2	2	105/96	75-125	9%

### Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/Kg = Parts per million (ppm)

QC File No. 30806

*Michael L. Damm*  
 Senior Chemist  
 Account Manager

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

30804

1 of 2

Chain-of-Custody-Record

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

Chevron Facility Number 9-4587  
Facility Address 6<sup>th</sup> St @ Oak, Oakland  
Consultant Project Number 4587-2  
Consultant Name Jackson Development  
Address 10 Oak 2554, San Ramon, CA  
Project Contact (Name) Jeff Monroe  
(Phone) 925 888 8110 (Fax Number) 5388812

Chevron Contact (Name) Belinda Eppelt  
(Phone) 510 842 7521  
Laboratory Name Summit  
Laboratory Release Number 12058252  
Samples Collected by (Name) Jeff Monroe  
Collection Date 10-17-94  
Signature Jeff Monroe

Sample Number	Lab Sample Number	Number of Containers	Media 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 (5920)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	Organic Pb	Total Pb								
SP-1a-d		4	S	C	13:30		Yes	X																	
SP-2a-d					13:33																			} 5 Day TAT.	
SP-3a-d					13:40																				
SE				D	14:05																				
SW					15:17																				
ES					15:20																				
EN					15:25																				
NE					15:28																				
NW					15:32																				
WN					15:36																				
P-1					15:40																				
P-2					15:44																				
P-3					15:46																				
P-4					15:52																				

Please note:  
Samples for analysis were collected on 10/18/94 at 10:30 AM.  
COC-3.DWG/03.91/HCH

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>[Signature]</u>	Date/Time 15:10 <u>10-18-94</u>	Received By (Signature) <u>M. McEmore</u>	Organization <u>Hero</u>	Date/Time <u>10/18 3:10</u>
Relinquished By (Signature) <u>M. McEmore</u>	Organization <u>Hero</u>	Date/Time <u>10-18 16:35</u>	Received By (Signature) <u>M. Wright</u>	Organization <u>Hero</u>	Date/Time <u>10/18/94 16:35</u>
Relinquished By (Signature) <u>M. Wright</u>	Organization <u>Hero</u>	Date/Time <u>10-18-94 18:20</u>	Received For Laboratory By (Signature) <u>Summit</u>	Organization <u>Summit</u>	Date/Time <u>10/18 6:35</u>

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

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

Yes

No

3 0806

2 of 2

# Chain-of-Custody-Record

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

Chevron Facility Number Chevron 9-4587  
 Facility Address Oak @ 6th St, Oakland  
 Consultant Project Number 4587-2  
 Consultant Name Procters Developments  
 Address P.O. Box 354 Santa Rosa CA  
 Project Contact (Name) Jeff Monico  
 (Phone) 538 8818 (Fax Number) 538 8812

Chevron Contact (Name) Belinda Everett  
 (Phone) 510 842 9521  
 Laboratory Name Superior  
 Laboratory Release Number 2058252  
 Samples Collected by (Name) Jeff Monico  
 Collection Date 10-17-94  
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type C = 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)														
P-5		1	S	D	15:58		Yes	X																					
P-6		1	S	D	16:02		Yes	X																					

SH  
400  
11/11  
OR

Relinquished By (Signature)  
[Signature]  
 Relinquished By (Signature)  
[Signature]  
 Relinquished By (Signature)  
[Signature]

Organization  
HD  
 Organization  
Herco  
 Organization  
Herco

Date/Time 15:10  
10-18-94  
 Date/Time 16:15  
10-18-94  
 Date/Time 18:20  
10-18-94

Received By (Signature)  
[Signature]  
 Received By (Signature)  
[Signature]  
 Received For Laboratory By (Signature)  
Suman

Organization  
Herco  
 Organization  
Herco  
 Date/Time 3:10  
10/18  
 Date/Time 6:35  
10/18  
 Date/Time 6:35  
10/18

Turn Around Time (Circle Choice)

24 Hrs.  
 48 Hrs.  
 5 Days  
 10 Days  
 As Contracted



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS  
Attn: JEFF MONROE

Project 4587-1  
Reported 11/15/94

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30840- 1	ASP-2 (a-d)	11/08/94	11/11/94 Soil
30840- 2	ASP-3 (a-d)	11/08/94	11/11/94 Soil

## RESULTS OF ANALYSIS

Laboratory Number: 30840- 1 30840- 2

Gasoline:	ND<1 ✓	ND<1 ✓
Benzene:	ND<.005 ✓	ND<.005 ✓
Toluene:	ND<.005	ND<.005
Ethyl Benzene:	ND<.005	ND<.005
Total Xylenes:	ND<.005	ND<.005
Concentration:	mg/kg	mg/kg



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A member of ESSCON Environmental Support Service Consortium

## CERTIFICATE OF ANALYSIS ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2  
QA/QC INFORMATION  
SET: 30840

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:	82/85	4%	50-123
Benzene:	77/82	6%	59-153
Toluene:	80/86	7%	59-153
Ethyl Benzene:	83/88	6%	59-153
Total Xylenes:	88/91	3%	59-153

Certified Laboratory Chemist

*Michael R. Keenan*

