

RIGHETTI
LAW
FIRM

November 22, 1991

91 NOV 25 11:59

LARRY SETO

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF PUBLIC HEALTH
80 Swan Way, Room 200
Oakland, CA 94621

**Re: Righetti v. Shell Oil Company, et al.;
and related cross actions**

Dear Mr. Seto:

Pursuant to our recent telephone conversation, enclosed please find a copy of the October 31, 1991, Exploratory Borings report from Converse Environmental West. I kindly ask that you review this report in conjunction with the last quarterly report. It has been a very long time since we had a status meeting involving all concerned parties and I believe we should schedule such a meeting forthwith.

Please let me know your thoughts in this regard as we want to keep this matter moving forward toward conclusion so the property can again be put to productive use. Thank you for your continued professional courtesy and cooperation.

Very truly yours,

RIGHETTI LAW FIRM


Matthew Righetti, Esq.

MR;tgb

20-Seto;Righetti v Shell

cc Dr. Milton Righetti
(w/out enclosures)
David O. Larson/Michael Johnson
LARSON & BURNHAM
(w/out enclosures)
David M. Swope, Esq.
SHELL OIL COMPANY
(w/out enclosures)
Richard Schoenberger, Esq.
WALKUP, SHELBY, ET AL.
(w/out enclosures)

October 31, 1991
88-44-380-20-1451



Mr. Jack Brastad
SHELL OIL COMPANY
P.O. Box 5278
Concord, California 94520

Subject: EXPLORATORY BORINGS
at former Shell Oil Company
Retail Gas Station
2724 Castro Valley Boulevard
Castro Valley, California

Dear Mr. Brastad:

Enclosed please find the results of drilling and sampling four soil borings at the above referenced Shell facility. The borings were completed at your request after soil contamination was detected adjacent to the station building during removal of the waste oil tank.

INTRODUCTION

During tank removal operations at the former Shell Service Station located at 2724 Castro Valley Boulevard in Castro Valley (Drawing 1), contaminated soils were observed under the southeast corner of the station building. In order to attempt to assess the extent of contamination beneath the station building, Converse Environmental West (Converse) drilled an additional four borings, SB-6 through SB-9, at the locations shown on Drawing 2. Activities were conducted under the supervision of a Registered Geologist.

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October 31, 1991
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DRILLING PROCEDURES

The four soil borings, SB-6, SB-7, SB-8 and SB-9 were each drilled to approximately 10 feet below grade surface (bgs) on September 18, 1991. The borings were completed using a 1.5 inch inside diameter hollow stem auger. Boring logs (attached as Appendix A) were prepared by Converse personnel under the supervision of a Registered Geologist. Groundwater was not encountered in any of the borings.

Samples were collected at 5 and 10 feet bgs in each boring using either a modified California or a standard penetration sampler with brass sleeves to retain soil. Samples were immediately sealed, labeled and placed in refrigerated storage for transport under chain-of-custody control to NET Pacific, Inc., a California state-certified laboratory. All sampling equipment was cleaned with trisodium phosphate and triple rinsed before and after each sample was collected to minimize the potential for cross contamination.

Soil cuttings produced during drilling were placed on plastic sheeting, covered with additional plastic and temporarily stored on-site pending sample analysis and waste classification.

The borings were backfilled with bentonite grout and patched with concrete.

LABORATORY ANALYSIS

The soil samples collected from borings SB-6 and SB-9 were analyzed for oil and grease by Method 5520 CEF, Total Petroleum Hydrocarbons as gasoline (TPH-g) by 5030/GCFID, Total Petroleum Hydrocarbons as diesel (TPH-d) and motor oil by 3550/GCFID, and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020.

Soil samples collected from borings SB-7 and SB-8, adjacent to hydraulic lifts in the station building, were analyzed only for oil and grease.

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FINDINGS

Subsurface Lithology

Boring logs of SB-6, SB-7, SB-8 and SB-9 (Appendix A) indicate that the soils beneath the station building to a depth of 10 feet bgs consist of silty clays and clays. This is consistent with observations from borings previously drilled at the site.

Laboratory Results

Petroleum hydrocarbons were detected in each of the samples collected from SB-6 and SB-9 located near the southeastern corner of the station building. In general, the highest hydrocarbon concentrations were detected in the 5 feet bgs sample from SB-9. Hydrocarbons detected in this sample were oil and grease (1,800 mg/kg), TPH-g (1,800 mg/kg), TPH-d (330 mg/kg), TPH-mo (470 mg/kg), and total xylenes (30 mg/kg).

The highest hydrocarbon concentrations in samples from SB-6 were also found in the 5 feet bgs sample. Hydrocarbons detected in this sample were oil and grease (740 mg/kg), TPH-g (770 mg/kg), TPH-d (280 mg/kg), TPH-mo (160 mg/kg), toluene (3.6 mg/kg), ethylbenzene (5.4 mg/kg) and total xylenes (22 mg/kg). Benzene (0.11 mg/kg) was also detected in the 10 ft bgs sample from SB-6. No oil and grease was detected in this sample.

Analysis of soil samples from borings adjacent to the hydraulic hoists (SB-7 and SB-8) detected oil and grease in samples from SB-7. No oil and grease was detected in samples from SB-8. The 5 and 10 feet bgs samples from SB-7 contained 880 mg/kg and 160 mg/kg oil and grease, respectively.

Analytical results are summarized in Table 1; copies of the laboratory reports and chain-of-custody documents are attached as Appendix B.

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Mr. Jack Brastad
SHELL OIL COMPANY
October 31, 1991
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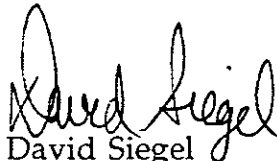
SUMMARY

Soil samples collected from borings SB-6, SB-7 and SB-9, beneath the station building indicated the presence of concentrations of oil and grease, BTEX and petroleum hydrocarbons. The lateral extent to the north and south of impacted soils are currently unknown. Options for remediation and further assessment of the site will be addressed under separate cover.

If you have any questions concerning the procedures or findings described herein, please do not hesitate to call.

Respectfully submitted,

Converse Environmental West


David Siegel
Project Geologist

Enclosures:

Drawing 1: Site Location Map
Drawing 2: Plot Plan
Table 1: Summary of Analytical Results
Appendix A: Boring Logs
Appendix B: Laboratory Results and Chain-of-Custody Forms

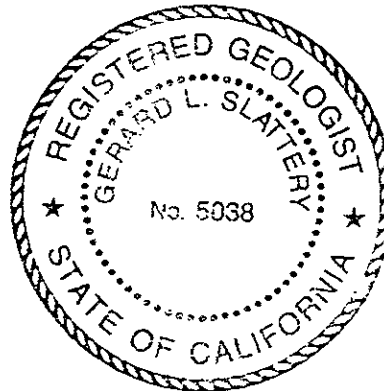
cc: Mr. Lawrence Seto - Alameda County Health Care
Services Agency (w/encl.)
Dr. Mohsen Mehran - Owner Consultant (w/encl.)
Mr. Michael K. Johnson - Larson, Burnham and Turner (w/encl.)
Mr. Matthew Righetti - Righetti Law Firm (w/encl.)
Mr. Richard A. Schoenberger, Esq. - Walkup, Shelby, Bastion,
Melodia, Kelly, Echeverria and Link (w/encl.)

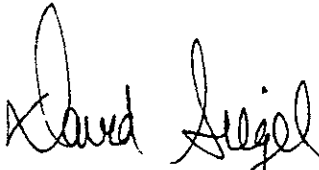
CERTIFICATION

This report of activities for the Shell Oil Company facility at 2724 Castro Valley Boulevard, Castro Valley, California has been prepared by the staff of Converse Environmental West under the professional supervision of the Engineer and/or Geologist whose seal(s) and signature(s) appear hereon.

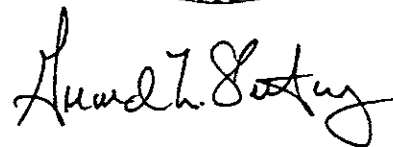
The findings, recommendations, specifications or professional opinions are presented, within the limits prescribed by the Client, after being prepared in accordance with generally accepted professional engineering and geologic practice. We make no other warranty, either expressed or implied.

Respectfully submitted,




DAVID SIEGEL

Project Geologist



GERARD L. SLATTERY, RG 5038

Senior Geologist
Manager, Technical Services

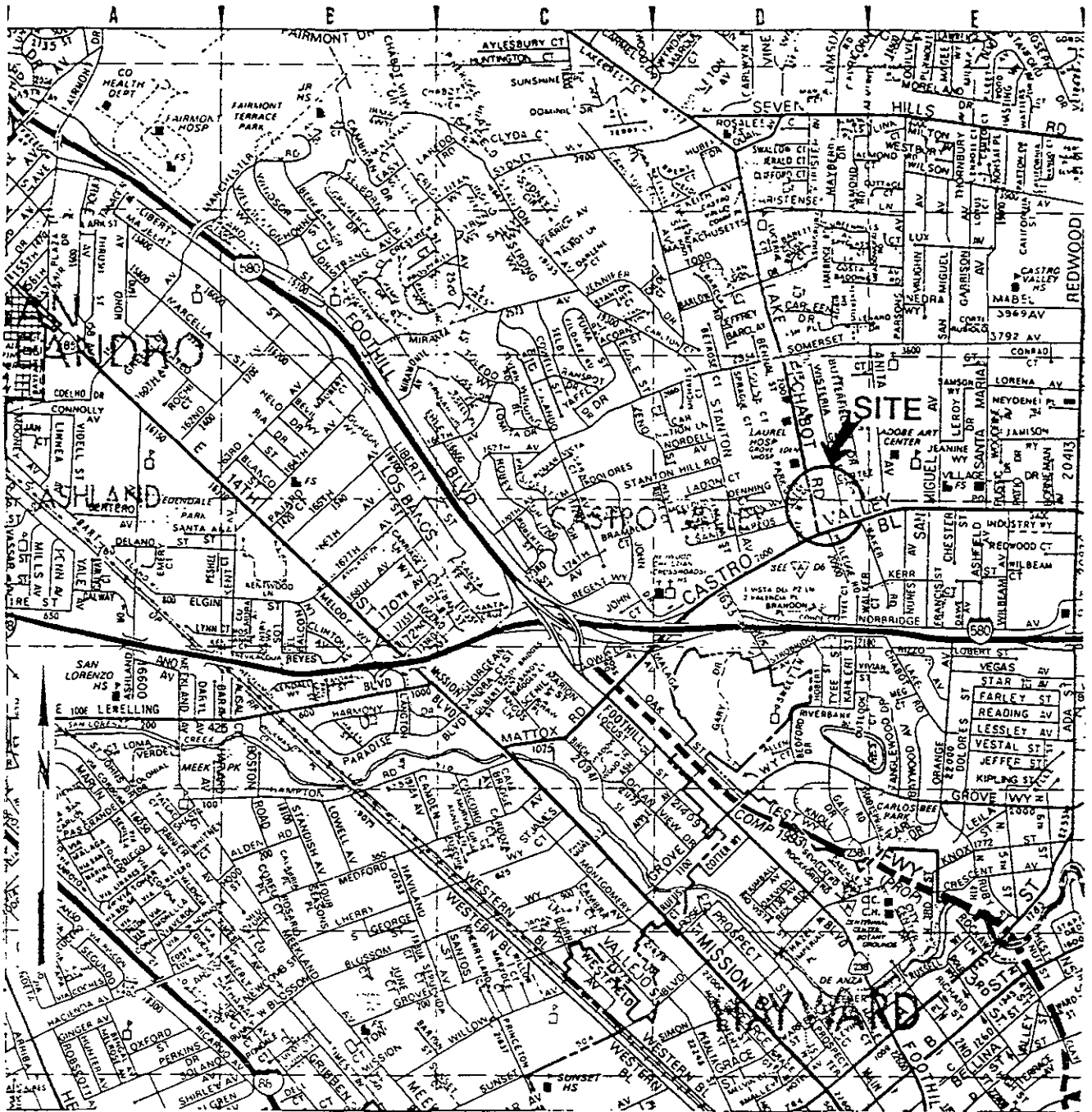
Table 1: Soil Analytical Results

Former Shell Oil Company Site
2724 Castro Valley Boulevard
Castro Valley, California

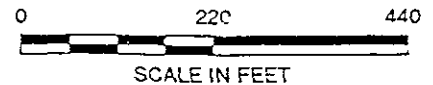
Boring No.	Sample Depth (feet bgs)	Oil & Grease (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)
SB-6	5'	740	770	280	160	ND	3,600	5,400	22,000
	10'	ND	1.7	5.0	13	110	32	2.8	33
SB-7	5'	880	---	---	---	---	---	---	---
	10'	160	---	---	---	---	---	---	---
SB-8	5'	ND	---	---	---	---	---	---	---
	10'	ND	---	---	---	---	---	---	---
SB-9	5'	1,800	1,800	380	470	ND	ND	ND	30,000
	10'	460	240	190	190	ND	ND	ND	3,700

ND Not detected above stated detection limits
 --- Parameter not analyzed for
 TPH-g Total petroleum hydrocarbon as gasoline
 TPH-d Total petroleum hydrocarbon as diesel
 TPH-mo Total petroleum hydrocarbon as motor oil
 mg/kg milligrams per kilogram
 µg/kg micrograms per kilogram

Detection Limits
 Oil & Grease 50 mg/kg
 TPH-g 1 mg/kg
 TPH-d 1 mg/kg
 TPH-mo 10 mg/kg
 BTEX 2.5 µg/kg



SOURCE: Thomas Brothers Maps, 1989.



SITE LOCATION MAP

SHELL OIL COMPANY
 2724 Castro Valley Boulevard
 Castro Valley, California

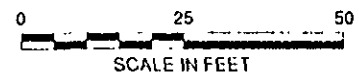
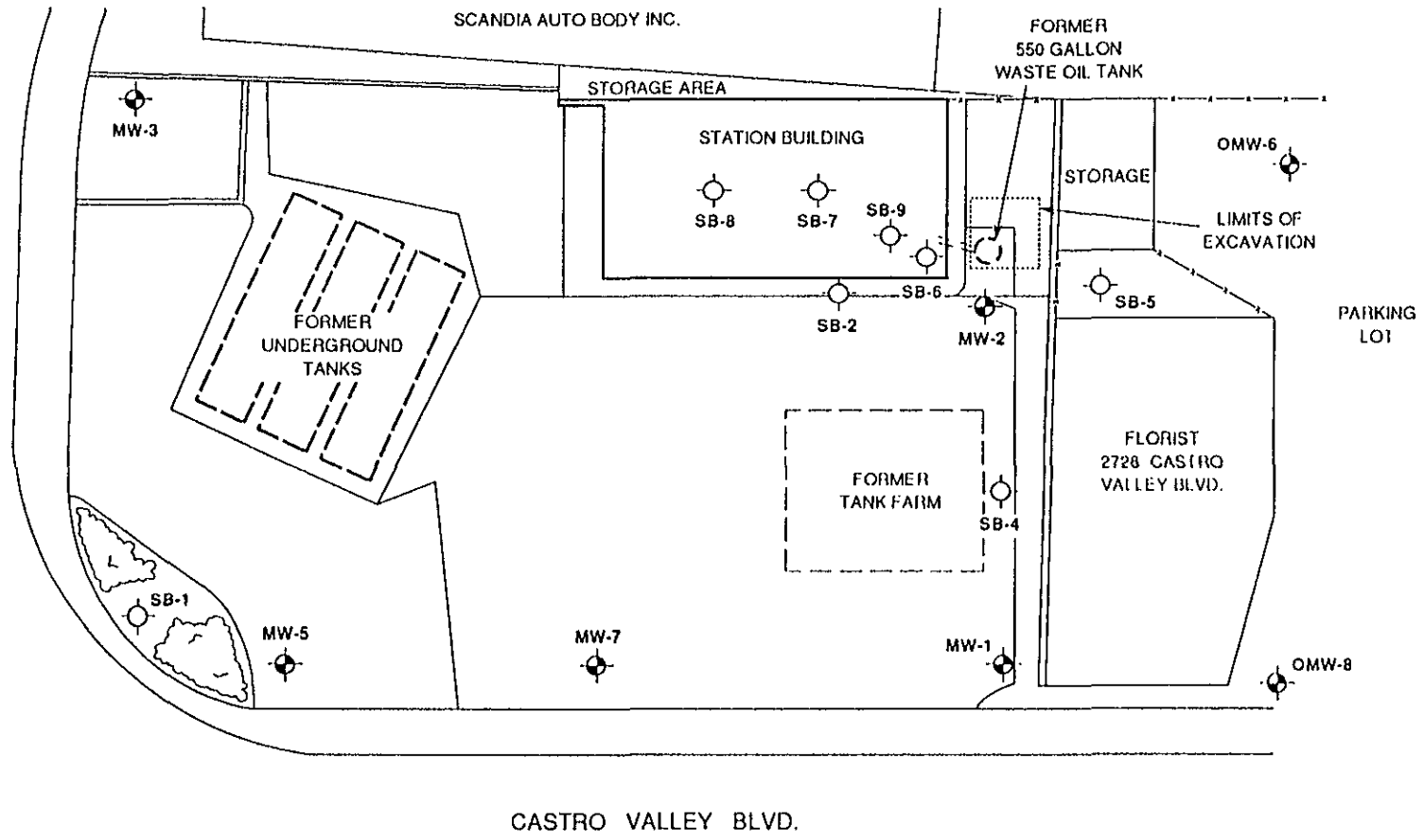
Scale	AS SHOWN	Project No.	89-44-380-2C
Prepared by	LQL	Date	6/8/90
Checked by	MCC	Drawing No.	
Approved by	CRC		1



Converse Environmental West



LAKE CHABOT ROAD



OMW-9

CONCRETE DIVIDER

Base Map: Surveyed with electronic distance meter by CEW, 1990.

LEGEND

- SB-1 SOIL BORING (locations approximate)
- MW-1 GROUNDWATER MONITORING WELL
- OMW-9 PROPOSED OFFSITE GROUNDWATER MONITORING WELL

PLOT PLAN

SHELL OIL COMPANY
 2724 Castro Valley Boulevard
 Castro Valley, California

Scale	AS SHOWN	Project No.	88-44-380-20
Prepared by	LQL	Date	10/24/91
Checked by	DS	Drawing No.	2
WIC Number	204 1311 0-107		



Converse Environmental West

APPENDIX A

Boring Logs

MAJOR DIVISIONS			SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS MORE THAN HALF IS LARGER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL GRADED SANDS, GRAVELLY SANDS
			SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC	CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE GRAINED SOILS MORE THAN HALF IS SMALLER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAY
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE, SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
		HIGHLY ORGANIC SOILS	Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

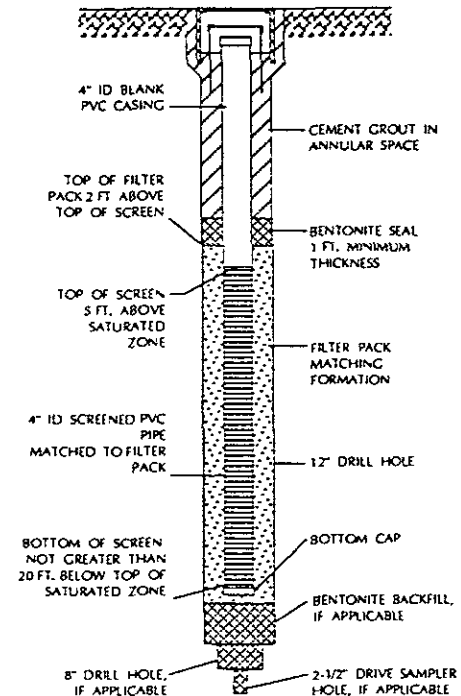
SAMPLE TYPE

DEPTH (FT)	SAMPLE	WATER LEVEL
0-2		
2	2	
5	S	
	S P T	
10		
		Initial Water Level at Time of Drilling
		Stabilized Water Level on Date Noted

NOTE:

SOIL CONDITIONS INDICATED BY BORING LOGS APPLY ONLY AT THE LOCATION OF THE PARTICULAR BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THE BORING LOCATION WITH THE PASSAGE OF TIME. DATA PRESENTED IN THE LOGS REPRESENT A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. SOIL CONDITIONS INDICATED BETWEEN SAMPLE INTERVALS ARE INFERRED.

WELL CONSTRUCTION



UNIFIED SOIL CLASSIFICATION, BORING LOG, AND WELL CONSTRUCTION SYMBOLS

SHELL OIL COMPANY
2724 Castro Valley Boulevard
Castro Valley, California

Project No.

88-44-380-20

Drawing No.

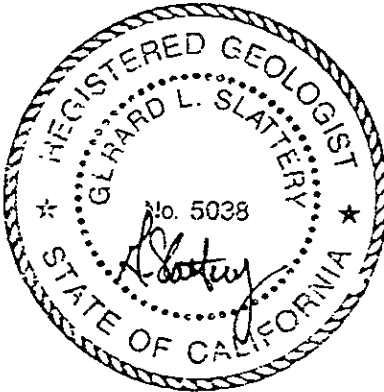


Converse Environmental West

A-1

LOG OF BORING NO. SB-6

Start: 9/18/91 Completion: 9/18/91 Water Measure: N/A	Geologist: J. Finnegan Assistant Geol.: Drilling Co.: Power Core	Diller/Helper: N/A Drilling Method: Power Core Auger/Bit Dia.: 1.5"
---	--	---

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
			5* Concrete						
			Silty Clay, some Silt, little fine to coarse Sand, little Gravel	CL	slightly moist	stiff	dark brown to black		
5	1		Clay, trace to little Silt	CH	slightly moist	stiff	dark brown to black		
			Clay, little Silt	CL			brown to light brown		
10	2		Silty Clay, some Silt		slightly moist	stiff	gray and lt. brown		
			Total Depth of Boring: 10 ft. Backfilled with Concrete and Bentonite						
15									
20									

SHELL OIL COMPANY
2724 Castro Valley Boulevard
Castro Valley, California

Project No.
88-44-380-20



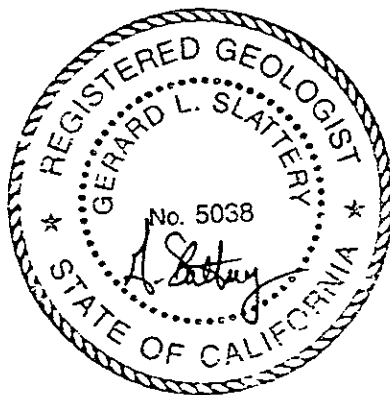
Converse Environmental West

Drawing No.
A-2

LOG OF BORING NO. SB-7

Start: 9/18/91 Completion: 9/18/91 Water Measure: N/A	Geologist: J. Finnegan Assistant Geol.: Drilling Co.: Power Core	Diller/Helper: N/A Drilling Method: Power Core Auger/Bit Dia.: 1.5"
---	--	---

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
			●	5" Concrete					
			/	Silty Clay, some Silt, little Sand, little to some Gravel	CL	slightly moist	dark brown to black		
5	1		/	Clay, trace to little Silt	CH	slightly moist	dark gray green brown		
10	2		/	Clay, little Silt, trace Gravel, roots	CH	slightly moist	gray and grn brown		
15				Total Depth of Boring: 10 ft. Backfilled with Concrete and Bentonite					
20									



SHELL OIL COMPANY
 2724 Castro Valley Boulevard
 Castro Valley, California

Project No.

88-44-380-20




Converse Environmental West

Drawing No.

A-3

LOG OF BORING NO. SB-8

Start: 9/18/91 Completion: 9/18/91 Water Measure: N/A	Geologist: J. Finnegan Assistant Geol.: Drilling Co.: Power Core	Diller/Helper: N/A Drilling Method: Power Core Auger/Bit Dia.: 1.5"
---	--	---

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY		
			●●●●	5" Concrete							
			/ / / /	Silty Clay, some Silt, some fine to coarse Sand and Gravel	CL	moist to slightly moist	dark brown				
5	1		/ / / /	Clay, trace Silt	CH	slightly moist	dark gray green brown				
10	2		/ / / /	Silty Clay	CL	slightly moist	dark gray green brown				
15				Total Depth of Boring: 10 ft. Backfilled with Concrete and Bentonite							
20											

SHELL OIL COMPANY
 2724 Castro Valley Boulevard
 Castro Valley, California

Project No.

88-44-380-20




Converse Environmental West

Drawing No.

A-4

LOG OF BORING NO. SB-9

Start: 9/18/91 Completion: 9/18/91 Water Measure: N/A	Geologist: J. Finnegan Assistant Geol.: Drilling Co.: Power Core	Diller/Helper: N/A Drilling Method: Power Core Auger/Bit Dia.: 1.5"
---	--	---

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY		
			5"	5" Concrete							
			1	Silty Clay, some Silt, some fine to coarse Sand and Gravel	CL	moist	dark gray green brown				
			5	Clay, trace Silt	CH	slightly moist	dark gray green brown				
			10	Silty Clay, little Silt	CL	slightly moist	dark gray green brown				
				Total Depth of Boring: 10 ft. Backfilled with Concrete and Bentonite							
											
			20								

SHELL OIL COMPANY
 2724 Castro Valley Boulevard
 Castro Valley, California

Project No.
 88-44-380-20



Converse Environmental West

Drawing No.
 A-5

APPENDIX B

Laboratory Reports and Chain of Custody Documents



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

SHELL

CASTRO VALLEY

CONVERSE CONSULTANTS

Dave Siegel
Converse Consultants
55 Hawthorne St, Ste 500
San Francisco, CA 94105

Date: 09-25-91
NET Client Acct No: 18.02
NET Pacific Log No: 9895
Received: 09-19-91 0800

Client Reference Information

SHELL, 2724 Castro Valley Blvd., Project: 88-44-380-20

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

A handwritten signature in black ink, appearing to read "JS", is written over a horizontal line. Below the line, the name "Jules Skamarack" and title "Laboratory Manager" are printed.

Jules Skamarack
Laboratory Manager

JS:rct
Enclosure(s)



NET Pacific, Inc.

Client No: 18.02
Client Name: Converse Consultants
NET Log No: 9895

Date: 09-25-91

Page: 2

Ref: SHELL, 2724 Castro Valley Blvd., Project: 88-44-380-20

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results		Units
			SB-6 5' 09-18-91 0933	SB-6 10' 09-18-91 0947	
Oil & Grease(IR,Non-Polar)	SM5520CEF	50	740	ND	mg/Kg
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (SOIL)			--	--	
DILUTION FACTOR *			100	1	
DATE ANALYZED			09-19-91	09-19-91	
METHOD GC FID/5030			--	--	
as Gasoline			1	1.7	mg/Kg
METHOD 8020			--	--	
DILUTION FACTOR *			100	1	
DATE ANALYZED			09-19-91	09-19-91	
Benzene			2.5	110	ug/Kg
Ethylbenzene			2.5	32	ug/Kg
Toluene			2.5	2.8	ug/Kg
Xylenes, total			2.5	33	ug/Kg
PETROLEUM HYDROCARBONS			--	--	
EXTRACTABLE (SOIL)			--	--	
DILUTION FACTOR *			5	1	
DATE EXTRACTED			09-20-91	09-20-91	
DATE ANALYZED			09-21-91	09-21-91	
METHOD GC FID/3550			--	--	
as Diesel			1	5.0	mg/Kg
as Motor Oil			10	13	mg/Kg

** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel and Gasoline analysis on this sample appears to be a hydrocarbon that is heavier than gasoline and lighter than diesel.

*** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample appears to be a lighter hydrocarbon than diesel.



NET Pacific, Inc.

Client No: 18.02
Client Name: Converse Consultants
NET Log No: 9895

Date: 09-25-91

Page: 3

Ref: SHELL, 2724 Castro Valley Blvd., Project: 88-44-380-20

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results		Units
			SB-9 5' 09-18-91 1110	SB-9 10' 09-18-91 1122	
			97772**	97773**	
Oil & Grease(IR,Non-Polar)	SM5520CEF	50	1,800	460	mg/Kg
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (SOIL)			--	--	
DILUTION FACTOR *			500	100	
DATE ANALYZED			09-19-91	09-19-91	
METHOD GC FID/5030			--	--	
as Gasoline			1	1,800	240 mg/Kg
METHOD 8020			--	--	
DILUTION FACTOR *			500	100	
DATE ANALYZED			09-19-91	09-19-91	
Benzene			2.5	ND	ug/Kg
Ethylbenzene			2.5	ND	ug/Kg
Toluene			2.5	ND	ug/Kg
Xylenes, total			2.5	30,000	3,700 ug/Kg
PETROLEUM HYDROCARBONS			--	--	
EXTRACTABLE (SOIL)			--	--	
DILUTION FACTOR *			10	5	
DATE EXTRACTED			09-20-91	09-20-91	
DATE ANALYZED			09-21-91	09-21-91	
METHOD GC FID/3550			--	--	
as Diesel			1	380	190 mg/Kg
as Motor Oil			10	470	190 mg/Kg

** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel and Gasoline analysis on this sample appears to be a hydrocarbon that is heavier than gasoline and lighter than diesel.



NET Pacific, Inc.

Client No: 18.02
Client Name: Converse Consultants
NET Log No: 9895

Date: 09-25-91

Page: 4

Ref: SHELL, 2724 Castro Valley Blvd., Project: 88-44-380-20

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results		Units
			SB-7 5' 09-18-91 1010	SB-7 10' 09-18-91 1020	
Oil & Grease(IR,Non-Polar)	SM5520CEF	50	97774 880	97775 160	mg/Kg



NET Pacific, Inc.

Client No: 18.02
Client Name: Converse Consultants
NET Log No: 9895

Date: 09-25-91

Page: 5

Ref: SHELL, 2724 Castro Valley Blvd., Project: 88-44-380-20

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results		Units
			SB-8 5' 09-18-91 1034	SB-8 10' 09-18-91 1045	
Oil & Grease(IR,Non-Polar)	SM5520CEF	50	97776	97777	mg/Kg
			ND	ND	



NET Pacific, Inc.

Client Acct: 18.02

Client Name: Converse Consultants

NET Log No: 9895

Date: 09-24-91

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Ref: SHELL, 2724 Castro Valley Blvd., Project: 88-44-380-20

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
O&G(IR,Non-Polar)	50	mg/Kg	101	ND	93	87	6.7
Diesel	1	mg/Kg	118	ND	58	54	5.4
Motor Oil	10	mg/Kg	147	ND	N/A	N/A	N/A
Gasoline	1	mg/Kg	99	ND	99	97	1.6
Benzene	2.5	ug/Kg	91	ND	93	99	5.2
Toluene	2.5	ug/Kg	91	ND	95	99	3.0

COMMENT: Blank Results were ND on other analytes tested.



<	: Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
ICVS	: Initial Calibration Verification Standard (External Standard).
mean	: Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	: Concentration in units of milligrams of analyte per kilogram of sample (parts per million).
mg/L	: Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	: Milliliters per liter per hour.
MPN/100 mL	: Most probable number of bacteria per one hundred milliliters of sample.
N/A	: Not applicable.
NA	: Not analyzed.
ND	: Not detected; the analyte concentration is less than applicable listed reporting limit.
NTU	: Nephelometric turbidity units.
RPD	: Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
SNA	: Standard not available.
ug/Kg (ppb)	: Concentration in units of micrograms of analyte per kilogram of sample (parts per billion).
ug/L	: Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	: Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



CONVERSE ENVIRONMENTAL WEST

CHAIN OF CUSTODY RECORD

WIC#: 204-1381-0407

PM: D.S. 9895

PROJECT NO.: 88-44-380-20				PROJECT NAME / CROSS STREET Shell / 2724 Castro Valley Bl. Castro Valley, CA Lake Chabot Rd.		NUMBER OF CONTAINERS	ANALYSES				REMARKS	
SAMPLERS (Signature) <i>[Signature]</i>				TPH-G	TPH-D		TRPH	BTEX				
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
	9/18/91	9:33		X	SB-6, 5'	1	X	X	X	X	odors	Detection limits
		9:47		X	" 10'	1	X	X	X	X	"	Tph-g: 1 (pp)
		10:10		X	SB-7, 5'	1			X			Tph-D: 1
		10:20		X	" 10'	1			X			Btex: 0.0025
		10:34		X	SB-8, 5'	1			X			
		10:45		X	" 10'	1			X			
		11:10		X	SB-9, 5'	1	X	X	X	X	odors	
		11:22		X	" 10'	1	X	X	X	X	"	

(CUSTODY SEALED 9/18/91)
 (1) 1400 *[Signature]*

RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE: 9/18/91 TIME: 3:20 PM	RECEIVED BY: (Signature) <i>[Signature]</i>	RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE: 9/18/91 TIME:	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE: TIME:	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE: TIME:	RECEIVED BY: (Signature)
RELINQUISHED BY COURIER: (Sign.)	DATE: TIME:	RECEIVED BY MOBILE LAB: (Sign.)	RELINQ. BY MOBILE LAB: (Signature)	DATE: TIME: 9:16	RECEIVED BY COURIER: (Signature)
METHOD OF SHIPMENT	SHIPPED BY: (Signature)	RECEIVED FOR LAB: (Signature)	DATE: 9-19-91	COURIER FROM AIRPORT: (Signature)	