

90 JAN -4 AM 11:42



December 29, 1989
88-44-380-01-336

Ms. Dyan Whyte
Water Resource Control Engineer
San Francisco Bay Regional Water Quality Control Board
1800 Harrison, Room 700
Oakland, California 94612

Subject: Shell Oil Company - Quarterly Report
Retail Gas Station
2724 Castro Valley Blvd.
Castro Valley, California

Dear Ms. Whyte:

A Work Plan summarizing site characterization studies which were conducted by Converse Environmental West (CEW) at the above site was previously transmitted to your office. This work was performed in connection with the removal of the old underground storage tanks and the excavation for new underground tanks.

With this letter and reference to the above Work Plan, Shell is submitting its Q4/1989 quarterly report.

88-44-380-01-336
Ms. Dyan Whyte
San Francisco Bay RWQCB
December 29, 1989
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Please call Dr. Doug Charlton or Mr. Mike Carey if you have any questions.

Very truly yours,

Converse Environmental West



**Robert K. Mansfield
Project Manager**

RKM:fs

cc: Ms. Diane Lundquist - Shell Oil Company (wo / enc)
Mr. Ray Newsome - Shell Oil Company (wo / enc)
Mr. George Nachtigall - Shell Oil Company (w/o enc)
Mr. Larry Seto - Alameda County Health Services Agency (w/o enc)
Mr. Douglas W. Charlton - CEW (w/o enc)

ANALYSIS DATA SHEET - INORGANIC LEAD
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T-10
 Matrix : SOIL
 Date Sampled : 02/16/89
 Date Prepared: 02/16/89
 Date Analyzed: 02/17/89

Anamatrix ID : 8902121-10
 Analyst : MN
 Supervisor : SJ
 Date released: 02/21/89
 Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (mg/kg)	Amount Found (mg/kg)
7421	Total Lead (Pb)	0.1	4.3

ND : Not detected at or above the practical quantitation limit for the limit.

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD BLANK
Matrix : SOIL
Date Sampled : N/A
Date Prepared: 02/13/89
Date Analyzed: 02/17/89

Anamatrix ID : MB213
Analyst : MN
Supervisor : JS
Date released: 02/21/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (mg/kg)	Amount Found (mg/kg)
7421	Total Lead (Pb)	0.002	0.003

ND : Not detected at or above the practical quantitation limit for the limit.

REPORT SUMMARY
ANAMETRIX, INC. (408) 432-8192

Client	: Crosby & Overton Env. Mgmt. Inc.	Anametrix W.O.#:	8902139
Address	: 8430 Amelia Street	Date Received	: 02/21/89
		Purchase Order#:	6652
City	: Oakland, CA 94621	Project No.	: 4125-T
Attn.	: Ron Cadiz	Date Released	: 02/28/89

Anametrix I.D.	Sample I.D.	Matrix	Date Sampled	Method	Extract	Date Analyzed	Inst I.D.
RESULTS							
8902139-01	4125-T T11	WATER	02/21/89	TPH		02/22/89	N/A
8902139-02	4125-T T12	SOIL	02/21/89	TPH		02/21/89	N/A
8902139-03	4125-T T13	SOIL	02/21/89	TPH		02/22/89	N/A
8902139-04	4125-T T14	SOIL	02/21/89	TPH		02/22/89	N/A
8902139-05	4125-T T15	SOIL	02/21/89	TPH		02/22/89	N/A
8902139-06	4125-T T16	SOIL	02/21/89	TPH		02/22/89	N/A
8902139-07	4125-T T18	SOIL	02/21/89	TPH		02/22/89	N/A
8902139-08	4125-T T20	SOIL	02/21/89	TPH		02/22/89	N/A
8902139-09	4125-T T21	SOIL	02/21/89	TPH		02/22/89	N/A

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T11
 Matrix : WATER
 Date sampled : 02/21/89
 Date anl.TPHg: 02/22/89
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 8902139-01
 Analyst : RK
 Supervisor : DJ
 Date released : 02/28/89
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene		
108-88-3	Toluene	0.02	0.76
100-41-4	Ethylbenzene	0.02	2.0
1330-20-7	Total Xylenes	0.02	0.40
	TVH as Gasoline	0.04	9.3
		20	20

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
 2724 Castro Valley Blvd.
 Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T12
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/21/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 8902139-02
Analyst : RK
Supervisor : SJS
Date released : 02/28/39
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.1	0.6
108-88-3	Toluene	0.1	0.3
100-41-4	Ethylbenzene	0.1	0.9
1330-20-7	Total Xylenes	0.1	5.7
	TPH as Gasoline	1	57

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T13
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/22/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 8902139-03
Analyst : RK
Supervisor : MS
Date released : 02/28/89
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.1	0.4
108-88-3	Toluene	0.1	0.2
100-41-4	Ethylbenzene	0.1	0.3
1330-20-7	Total Xylenes	0.1	0.4
	TPH as Gasoline	1	23

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GC/FID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T14
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/22/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 8902139-04
Analyst : RK
Supervisor : SJ
Date released : 02/28/89
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.1	0.8
108-88-3	Toluene	0.1	0.4
100-41-4	Ethylbenzene	0.1	0.6
1330-20-7	Total Xylenes	0.1	1.9
	TPH as Gasoline	1	3F

- ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T15
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/22/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anamatrix I.D. : 8902139-05
Analyst : RK
Supervisor : JF
Date released : 02/28/89
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	2	6
108-88-3	Toluene	2	48
100-41-4	Ethylbenzene	2	21
1330-20-7	Total Xylenes	2	82
	TPH as Gasoline	20	890

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil.
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T16
 Matrix : SOIL
 Date sampled : 02/21/89
 Date anl.TPHg: 02/22/89
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anametrix I.D. : 8902139-05
 Analyst : RK
 Supervisor : *SW*
 Date released : 02/28/89
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.8	ND
108-88-3	Toluene	0.8	3.6
100-41-4	Ethylbenzene	0.8	ND
1330-20-7	Total Xylenes	0.8	7.4
	TPH as Gasoline	8	490

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
 2724 Castro Valley Blvd.
 Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T18
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/22/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anamatrix I.D. : 8902139-07
Analyst : RK
Supervisor : DJP
Date released : 02/28/89
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.1	0.7
108-88-3	Toluene	0.1	2.5
100-41-4	Ethylbenzene	0.1	0.7
1330-20-7	Total Xylenes	0.1	4.3
	TPH as Gasoline	1	60

- ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GC/FID using EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DES) approved methods.

Shell Oil
2724 Castro Valley Blvd.
Casto Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T20
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/22/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anametrix I.D. : 8902139-08
Analyst : RK
Supervisor : DJ
Date released : 02/28/89
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.1	ND
108-88-3	Toluene	0.1	ND
100-41-4	Ethylbenzene	0.1	ND
1330-20-7	Total Xylenes	0.1	0.3
	TPH as Gasoline	1	56

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GC/FID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T21
Matrix : SOIL
Date sampled : 02/21/89
Date anl.TPHg: 02/22/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Anamatrix I.D. : 8902139-09
Analyst : RK
Supervisor : MJ
Date released : 02/28/89
Date ext. TOG : N/A
Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ppm)	Amount Found (ppm)
71-43-2	Benzene	0.8	4.5
108-88-3	Toluene	0.8	2
100-41-4	Ethylbenzene	0.8	70
1330-20-7	Total Xylenes	0.8	70
	TPH as Gasoline	8	560

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

REPORT SUMMARY
ANAMETRIX, INC. (408) 432-8192

Client : Crosby & Overton Env. Mgmt. Inc. Anamatrix W.O.#: 0902139
 Address : 8430 Amelia Street Date Received : 02/21/89
 City : Oakland, CA 94621 Purchase Order#: 6652
 Attn. : Ron Cadiz Project No. : 4125-T
 Date Released : 02/28/89

Anamatrix I.D.	Sample I.D.	Matrix	Date Sampled	Method	Date Extract	Date Analyzed	Lab.
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RESULTS

8902139-02	4125-T T12	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-02	4125-T T12	SOIL	02/21/89	ORGPB		02/23/89	AA1
8902139-03	4125-T T13	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-03	4125-T T13	SOIL	02/21/89	ORGPB		02/23/89	AA1
8902139-04	4125-T T14	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-04	4125-T T14	SOIL	02/21/89	ORGPB		02/23/89	AA1
8902139-05	4125-T T15	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-06	4125-T T16	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-07	4125-T T18	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-08	4125-T T20	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-08	4125-T T20	SOIL	02/21/89	ORGPB		02/23/89	AA1
8902139-09	4125-T T21	SOIL	02/21/89	TTLPB		02/22/89	AA1
8902139-09	4125-T T21	SOIL	02/21/89	ORGPB		02/23/89	AA1

QUALITY ASSURANCE (QA)

MBO21389	METHOD BLANK	SOIL	N/A	TTLPB		02/22/89	AA1
OMB022389	METHOD BLANK	SOIL	N/A	ORGPB		02/23/89	AA1

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T12
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/22/89
Date Analyzed: 02/22/89

Anamatrix ID : 890213960
Analyst : MN
Supervisor : P
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	16.1

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - ORGANIC LEAD
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T12
 Matrix : SOIL
 Date Sampled : 02/21/89
 Date Prepared: 02/23/89
 Date Analyzed: 02/23/89

Anametrix ID : 8902139-02
 Analyst : MN
 Supervisor : J A
 Date released: 02/28/89
 Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
LUFT	Organic Lead (Pb)	0.2	ND

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
 2724 Castro Valley Blvd.
 Castro Valley, CA

ANALYSIS DATA SHEET - INORGANIC LEAD
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T13
 Matrix : SOIL
 Date Sampled : 02/21/89
 Date Prepared: 02/22/89
 Date Analyzed: 02/22/89

Anamatrix ID : 890213
 Analyst : MW
 Supervisor : RM
 Date released: 02/28/89
 Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	14.1

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
 2724 Castro Valley Blvd.
 Castro Valley, CA

ANALYSIS DATA SHEET - ORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T13
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/23/89
Date Analyzed: 02/23/89

Anamatrix ID : 8902139-03
Analyst : MW
Supervisor : R ^
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
LUPT	Organic Lead (Pb)	0.2	ND

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - INORGANIC LEAD
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T14
 Matrix : SOIL
 Date Sampled : 02/21/89
 Date Prepared: 02/22/89
 Date Analyzed: 02/22/89

Anamatrix ID : 8902139-C4
 Analyst : MN
 Supervisor : R ^
 Date released: 02/28/89
 Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	37.3

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
 2724 Castro Valley Blvd.
 Castro Valley, CA

ANALYSIS DATA SHEET - ORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T14
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/23/89
Date Analyzed: 02/23/89

Anametrix ID : 8902139-04
Analyst : MN
Supervisor : R ^
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
LUFT	Organic Lead (Pb)	0.2	ND

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Anametrix ID : 8902139-05
Analyst : MNJ
Supervisor : RM
Date released: 02/28/89
Instrument ID: AA1

Sample I.D. : 4125-T T15
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/22/89
Date Analyzed: 02/22/89

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	4.23

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Anamatrix ID : 8902139--05
Analyst : MN
Supervisor :
Date released: 02/28/89
Instrument ID: AA1

Sample I.D. : 4125-T T16
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/22/89
Date Analyzed: 02/22/89

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	11

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T18
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/22/89
Date Analyzed: 02/22/89

Anamatrix ID : 8902139-07
Analyst : MN
Supervisor : R
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	3.36

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T20
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/22/89
Date Analyzed: 02/22/89

Anametrix ID : 8902135-
Analyst : MW
Supervisor :
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	23.3

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

ANALYSIS DATA SHEET - ORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 4125-T T21
Matrix : SOIL
Date Sampled : 02/21/89
Date Prepared: 02/23/89
Date Analyzed: 02/23/89

Anamatrix ID : 8902139-09
Analyst : MN
Supervisor : RA
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
LUFT	Organic Lead (Pb)	0.2	ND

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

MAR 06 '89 16:59 ANAMETRIX INC 408 432 8198

ANALYSIS DATA SHEET - INORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD BLANK
Matrix : SOIL
Date Sampled : N/A
Date Prepared: 02/13/89
Date Analyzed: 02/22/89

Anamatrix ID : MB021389
Analyst : MN
Supervisor : R
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
7421	Total Lead (Pb)	0.1	ND

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, Ca

ANALYSIS DATA SHEET - ORGANIC LEAD
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD BLANK
Matrix : SOIL
Date Sampled : N/A
Date Prepared: 02/23/89
Date Analyzed: 02/23/89

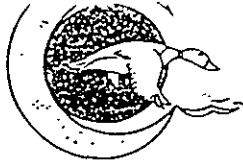
Anamatrix ID : OMB022389
Analyst : *MW*
Supervisor : *R*
Date released: 02/28/89
Instrument ID: AA1

METHOD NO.	COMPOUNDS	Detection Limit (ppm)	Amount Found (ppm)
LUPT	Organic Lead (Pb)	0.2	ND

ND : Not detected at or above the practical quantitation limit for the limit.

Shell Oil
2724 Castro Valley Blvd.
Castro Valley, CA

CITY: ~~415~~ 24 HOUR



CROSBY & OVERTON
Environmental Management Inc.
8430 Amelia Street • Oakland, California 94621
(415) 633-0336

CROSBY & OVERTON ENVIRONMENTAL MANAGEMENT, INC.
SAMPLE ANALYSIS REQUEST

FIELD SECTION: _____ JOB#: 4125-T P.O.#: 6632

LECTOR: D. SADOFF DATE SAMPLED: 2/16/89 TIME: _____ HOURS

LOCATION OF SAMPLING: SHELL OIL CO.
NAME OF COMPANY, DISPOSAL SITE, ETC.

ADDRESS: 2724 CASTRO VALLEY BLVD. CASTRO VALLEY, CA.
NUMBER STREET CITY STATE ZIP

TELEPHONE: () COMPANY CONTACT: _____

SAMPLE NO.	<u>4125-T1</u>	<u>4125-T2</u>	<u>4125-T3</u>	<u>4125-T4</u>	<u>4125-T5</u>	<u>4125-T6</u>
TYPE OF SAMPLE	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>
LOCATION SAMPLE	<u>TANK 1 E</u>	<u>TANK 1 W</u>	<u>TANK 2 E</u>	<u>TANK 2 W</u>	<u>TANK 3 E</u>	<u>TANK 3 W</u>
ANALYZE FOR	<u>TPH (8015)</u> <u>BTX (8020)</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

ANALYSIS: PD (7421)

LABORATORY SECTION: _____

RECEIVED BY: _____ TITLE: _____ DATE: _____

SAMPLE ALLOCATION: _____ DATE: _____

SULTS:						

CHAIN OF CUSTODY:
SIGNATURE Dave Sadoff

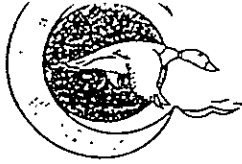
AGENCY/ORGANIZATION
LTO

INCLUSIVE DATES
2/16/89 15:30

John Mandak

2/16/89 15:30

CITY: ROUTE 77, 78



CROSBY & OVERTON
Environmental Management Inc.
8430 Amelia Street • Oakland, California 94621
(415) 633-0336

24 HOUR
T9, T10

CROSBY & OVERTON ENVIRONMENTAL MANAGEMENT, INC.
SAMPLE ANALYSIS REQUEST

FIELD SECTION: _____ JOB#: 4125-T P.O.#: 6632

LECTOR: D. SADOFF DATE SAMPLED: 2/16/89 TIME: _____ HOURS

LOCATION OF SAMPLING: SHELL OIL CO.
NAME OF COMPANY, DISPOSAL SITE, ETC.

ADDRESS: 2724 LAUREN VALLEY BLVD.
NUMBER STREET CITY STATE ZIP

TELEPHONE: () COMPANY CONTACT: _____

SAMPLE NO.	<u>4125-T7</u>	<u>4125-T8</u>		<u>4125-T9</u>	<u>4125-T10</u>	
TYPE OF SAMPLE	<u>TANK SOIL</u>	<u>SOIL</u>		<u>COMPOSITE SOIL</u>	<u>SOIL</u>	
LOCATION SAMPLE	<u>TANK 4 E</u>	<u>TANK 4 W</u>		<u>COMPOSITE PILE # 1</u>	<u>COMPOSITE PILE # 2</u>	
ANALYZE FOR	<u>TPH-6</u> <u>BTXE</u>	<u>TPH-6</u> <u>BTXE</u>		<u>"</u>	<u>"</u>	

ANALYSIS: Pb Pb

LABORATORY SECTION:

RECEIVED BY: _____ TITLE: _____ DATE: _____

SAMPLE ALLOCATION: _____ DATE: _____

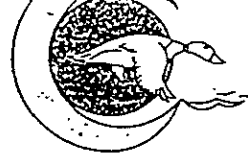
SULTS:					

CHAIN OF CUSTODY:

SIGNATURE: [Signature] AGENCY/ORGANIZATION: CHO INCLUSIVE DATES: 2/16/89 15:30

SIGNATURE: Jayhi Memuraudoh INCLUSIVE DATES: 2/16/89 15:30

LOCALITY: 24 HOUR



CROSBY & OVERTON
Environmental Management Inc.
8430 Amelia Street • Oakland, California 94621
(415) 633-0336

CROSBY & OVERTON ENVIRONMENTAL MANAGEMENT, INC.
SAMPLE ANALYSIS REQUEST

FIELD SECTION: _____ JOB#: 4128-T²¹ P.O.#: 6652

COLLECTOR: D SADOFF DATE SAMPLED: 2/21/89 TIME: 1500-1600 HOURS

LOCATION OF SAMPLING: _____ NAME OF COMPANY, DISPOSAL SITE, ETC. SHELL OIL CO.

ADDRESS: 2724 CASTRO VALLEY BLVD, CASTRO VALLEY
NUMBER STREET CITY STATE ZIP

TELEPHONE: () _____ COMPANY CONTACT: _____

SAMPLE NO.	<u>4128-T11</u>	<u>-T12</u>	<u>-T13</u>	<u>-T14</u>	<u>-T15</u>	<u>-T16</u>
TYPE OF SAMPLE	<u>AQUEOUS</u>	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>	<u>SOIL</u>
LOCATION SAMPLE	<u>PIT BOTTOM 12.5</u> <u>BBB</u>	<u>LINE 1</u> <u>N-1</u>	<u>LINE 4</u> <u>N-4</u>	<u>LINE 2</u> <u>N-3</u>	<u>COMPOSITE</u> <u>PILES</u> <u>4+5</u>	<u>COMPOSITE</u> <u>PILE 3</u>
ANALYZE FOR	<u>BTXE</u> <u>TPH-6</u> <u>PB</u>					

ANALYSIS: _____

LABORATORY SECTION:

RECEIVED BY: _____ TITLE: _____ DATE: _____

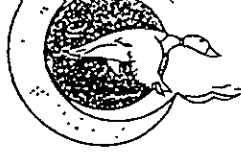
SAMPLE ALLOCATION: _____ DATE: _____

RESULTS:

CHAIN OF CUSTODY:

SIGNATURE	AGENCY/ORGANIZATION	INCLUSIVE DATES
<u>[Signature]</u>	<u>C/O, INC.</u>	<u>16928 2/21/89</u>
<u>[Signature]</u>		<u>16928 2/21/89</u>

LOCALITY: 24 HOUR



CROSBY & OVERTON
Environmental Management Inc.
8430 Amelia Street • Oakland, California 94621
(415) 633-0336

CROSBY & OVERTON ENVIRONMENTAL MANAGEMENT, INC.
SAMPLE ANALYSIS REQUEST

FIELD SECTION: _____ JOB#: 4125-T P.O.#: 6652

COLLECTOR: D. SADOFF DATE SAMPLED: 2/21/89 TIME: 1500-1600 HOURS

LOCATION OF SAMPLING: _____ NAME OF COMPANY, DISPOSAL SITE, ETC. SHELL OIL CO.

ADDRESS: 2724 CASTRO VALLEY BLVD. CASTRO VALLEY _____
NUMBER STREET CITY STATE ZIP

TELEPHONE: () _____ COMPANY CONTACT: _____

SAMPLE NO:	4125-T17	-T18	T-19	T-20	T-21
TYPE OF SAMPLE		SOIL		SOIL	SOIL
LOCATION OF SAMPLE		COMPOSITE PILE 6	LINE-2 N-1	LINE 2 N-3	LINE 2 N-4
ANALYZE FOR		TPH-G PAXE			
ANALYSIS:		Pb			

LABORATORY SECTION:

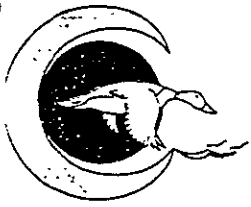
RECEIVED BY: _____ TITLE: _____ DATE: _____

SAMPLE ALLOCATION: _____ DATE: _____

RESULTS:					

CHAIN OF CUSTODY:

SIGNATURE	AGENCY/ORGANIZATION	INCLUSIVE DATES
<u>D. SADOFF</u>	<u>CRO INC.</u>	<u>16:28 2/21/89</u>
<u>J. J. M...</u>		<u>16:28 2/21/89</u>



CROSBY & OVERTON, INC.

Environmental Management

8430 Amelia Street
Oakland, California 94621
FAX (415) 633-0759
(415) 633-0336 • (800) 821-0424

March 15, 1989

-- Ms. Dianne Lundquist
Shell Oil Company
P.O. Box 4023
Concord, CA

Dear Ms. Lundquist:

The following presents the results of additional sampling conducted at the Shell Station at 2724 Castro Valley Blvd. in Castro Valley, California.

On March 14, 1989, at the request of Larry Seto of the Alameda County Health Agency, Crosby & Overton obtained four sidewall samples (at the water/air interface) and one aqueous sample from excavation #1. Approximately two feet of water was in the bottom of the excavation.

Please be advised that Mr. Seto requests a soil/groundwater and remediation plan before backfill may proceed.

If I may be of further assistance, please call at your convenience.

Sincerely,


Dave Sadoff

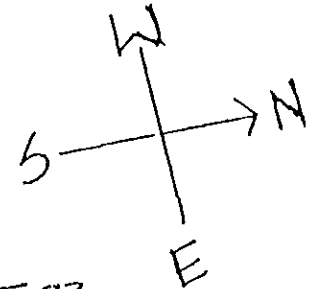
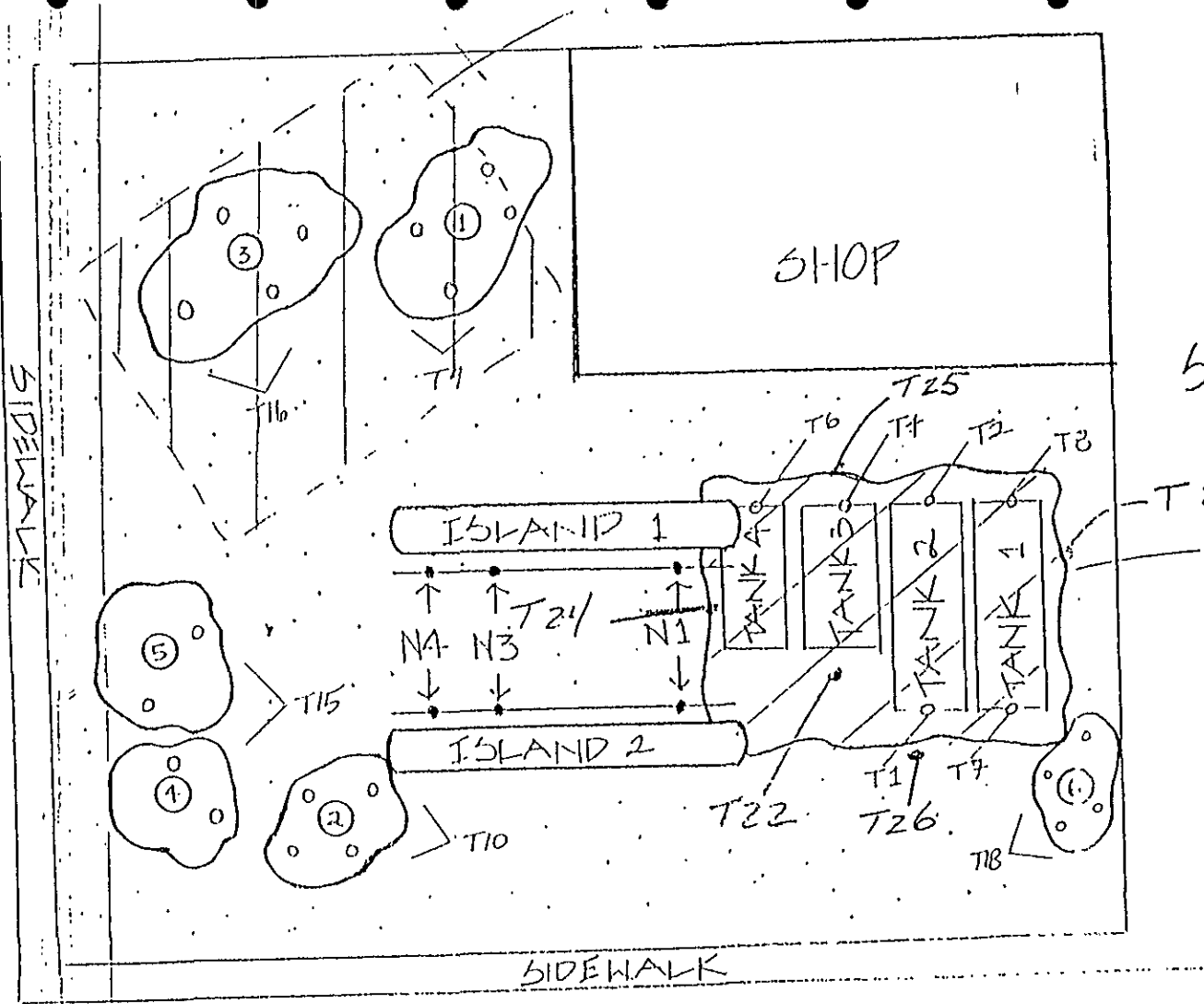
Enclosures

DS/ms

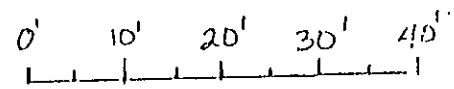
cc: Ray Newsome - Shell Oil Company

LAKE CHARBOT RD.

SIDEWALK



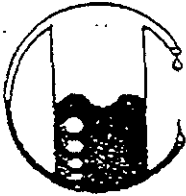
CASTRO VALLEY BLVD.



SCALE

SHELL STATION

2724 Castro Valley Blvd



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Company
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-14-89
Date Received: 03-14-89
Date Reported: 03-14-89

Sample Number

V039019

Sample Description

Shell-Castro Valley
2724 Castro Valey Blvd.
T-23 SOIL

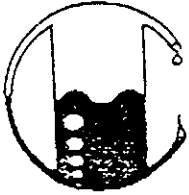
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	310
Benzene	0.1	18
Toluene	0.1	53
Xylenes	0.1	82
Ethylbenzene	0.1	14

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Company
P.O. BOX 4023
- Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-14-89
Date Received: 03-14-89
Date Reported: 03-14-89

Sample Number

V039020

Sample Description

Shell-Castro Valley
2724 Castro Valley Blvd.
T-24 SOIL

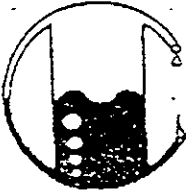
ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	1,300
Benzene	0.1	72
Toluene	0.1	260
Xylenes	0.1	270
Ethylbenzene	0.1	46

Note: Analysis was performed using EPA methods 5020 and 8015 with
method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Company
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-14-89
Date Received: 03-14-89
Date Reported: 03-14-89

Sample Number

V039021

Sample Description

Shell-Castro Valley
2724 Castro Valley Blvd.
T-25 SOIL

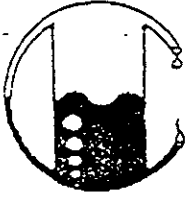
ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	390
Benzene	0.1	19
Toluene	0.1	73
Xylenes	0.1	130
Ethylbenzene	0.1	20

Note: Analysis was performed using EPA methods 5020 and 8015 with
method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



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733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Company
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-14-89
Date Received: 03-14-89
Date Reported: 03-14-89

Sample Number

V039022

Sample Description

Shell-Castro Valley
2724 Castro Valley Blvd.
T-26 SOIL

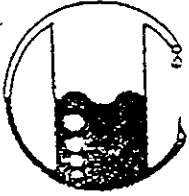
ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	18
Benzene	0.1	4.6
Toluene	0.1	5.7
Xylenes	0.1	5.3
Ethylbenzene	0.1	1.0

Note: Analysis was performed using EPA methods 5020 and 8015 with
method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Company
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-14-89
Date Received: 03-14-89
Date Reported: 03-14-89

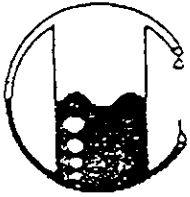
<u>Sample Number</u>	<u>Sample Description</u>	<u>Detection Limit</u>	<u>Total Petroleum Hydrocarbons as Diesel</u>
		ppb	ppb
	Shell- Castro Valley 2724 Castro Valley Blvd.		
V039015	T-22	50	<50

Note: Analysis was performed using EPA methods 3510 and 8015

MOBILE CHEM LABS

Ronald G. Evans

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Company
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-14-89
Date Received: 03-14-89
Date Reported: 03-14-89

Sample Number	Sample Description	Detection Limit	Total Petroleum Hydrocarbons as Diesel
-----	-----	-----	-----
		ppm	ppm
	Shell-Castro Valley 2724 Castro Valley Blvd.		
V039019	T-23	10	<10
V039020	T-24	10	<10
V039021	T-25	10	<10
V039022	T-26	10	<10

Note: Analysis was performed using EPA methods 3550 and 8015

MOBILE CHEM LABS

CITY: 64



8430 Armeta Street • Oakland, Ca. (415) 633-0336

CROSBY & OVERTON ENVIRONMENTAL MANAGEMENT, INC. SAMPLE ANALYSIS REQUEST

FIELD SECTION: _____

JOB: ~~4739~~ 4739 P.O.#: 16779

COLLECTOR: D. SADOFF

DATE SAMPLED: 3/14/89 TIME: 15:30 HOURS

LOCATION OF SAMPLING: SHELL OIL COMPANY
NAME OF COMPANY, DISPOSAL SITE, ETC.

ADDRESS: 2724 CASTRO VALLEY CA 94504
NUMBER STREET CITY STATE ZIP

TELEPHONE: () COMPANY CONTACT: _____

SAMPLE NO.	T-22	T-23	T-24	T-25	T-26
TYPE OF SAMPLE	AQUEOUS	SOIL	SOIL	SOIL	SOIL
LOCATION OF SAMPLE	BOTTOM PIT	NE WALL INTERFACE	SW WALL INTERFACE	NW WALL INTERFACE	SE WALL INTERFACE
ANALYZE FOR	TPH-G TPH-D	10' bgs	10' bgs	10' bgs	10' bgs

ANALYSIS: BTEX

LABORATORY SECTION: _____

RECEIVED BY: _____ TITLE: _____ DATE: _____

SAMPLE ALLOCATION: _____ DATE: _____

NO. _____

RESULTS:				

CHAIN OF CUSTODY:
SIGNATURE: [Signature]

AGENCY/ORGANIZATION:
CTO - JWC
MC L

INCLUSIVE DATES:
3/14/89 S
3/14/89 S

ATTACHMENT 4

Shell Oil Company



EAST BAY
MARKETING DISTRICT

P O. Box 4023
Concord, CA 94524
(415) 676-1414

March 31, 1989

Mr. Larry Seto
Alameda County Environmental Health Department
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Seto:

RE: SOIL SAMPLING - NEW TANK HOLE
SHELL STATION
2724 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CA

On March 24, 1989 sampling of excavation #2 (new tank hole area) yielded non-detectable levels of TPH-D and total oil and grease (503-E). Four samples showed detectable TPH-G, the highest concentration measuring 5.3 ppm.

These levels are far below the Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (June 2, 1988) commonly cited 100 ppm priority level.

Shell requests your approval to proceed with installation of new storage tanks.

All soil removed from excavation #2 (new tank hole) will be transported off site as a non-hazardous material with proper documents.

Regarding excavation #1 (old tank hole) Shell proposes to excavate additional soils on sidewalls and piping trenches to acceptable levels.

Shell intends to perform a soil/groundwater investigation including installation and development and sampling of groundwater monitoring wells (LUFT Guidelines) in order to define the lateral and vertical extent of contamination.

If you have any questions, please call me on (415) 676-1414, Ext. 128.

Very truly yours,

A handwritten signature in cursive script that reads "R. G. Newsome".

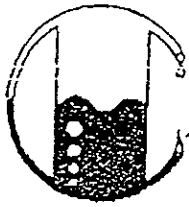
R. G. Newsome
Sr. District Engineer

Attachments

cc + Attachs: Mr. Mike Johnson, Moore-Clifford-Wolfe-Larson-Turner

bc + Attachs: Diane Lundquist
Lisa Foster

bc: Kurt Feazel
Larry Adams
Ken Lottinger
Darrell Robinson



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039086

Sample Description

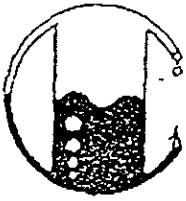
4237-T Castro Valley
2724 Castro Valley Blvd.
F212 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	4.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction

MOBILE CHEM LABS
Ronald G. Evans
Ronald G. Evans



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

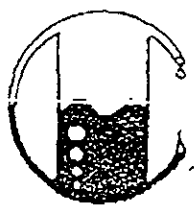
Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 03-24-89

Sample Number	Sample Description	Detection Limit	Total Petroleum Hydrocarbons as Diesel
		PPM	PPM
	4237-T Castro Valley 2724 Castro Valley Blvd.		
039074	F200	10	<10
039075	F201	10	<10
039076	F202	10	<10
039077	F203	10	<10
039078	F204	10	<10
039079	F205	10	<10
039080	F206	10	<10
039081	F207	10	<10
039082	F208	10	<10

Note: Analysis was performed using EPA methods 3550 and 8015

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

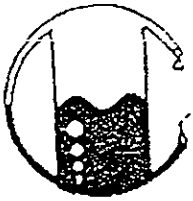
Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 03-26-89

Sample Number	Sample Description	Detection Limit	Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	4237-T Castro Valley 2724 Castro Valley Blvd.		
039083	F209	50	<50
039084	F210	50	<50
039085	F211	50	<50
039086	F212	50	<50

Note: Analysis was performed using EPA extraction method 3510 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 503c

MOBILE CHEM LABS

Ray Newsome



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

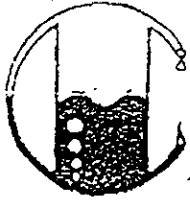
Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 03-26-89

Sample Number	Sample Description	Detection Limit	Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	4237-T Castro Valley 2724 Castro Valley Blvd.		
039074	F200	50	<50
039075	F201	50	<50
039076	F202	50	<50
039077	F203	50	<50
039078	F204	50	<50
039079	F205	50	<50
039080	F206	50	<50
039081	F207	50	<50
039082	F208	50	<50

Note: Analysis was performed using EPA extraction method 3510 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 503c

Handwritten signature or initials



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

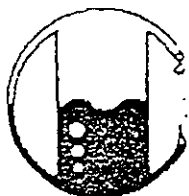
Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newsome

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 03-26-89

Sample Number	Sample Description	Detection Limit	Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	4237-T Castro Valley 2724 Castro Valley Blvd.		
039083	F209	50	<50
039084	F210	50	<50
039085	F211	50	<50
039086	F212	50	<50

Note: Analysis was performed using EPA extraction method 3510 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 503c.

MOBILE CHEM LABS
Ray Newsome



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039074

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F200 SOIL

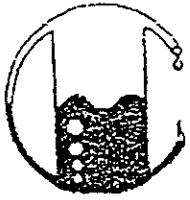
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Ronald G. Evans
Ronald G. Evans



MOBILE CHEM LABS INC.

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Shell Oil Co.
P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039075

Sample Description

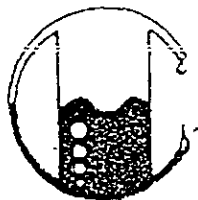
4237-T Castro Valley
2724 Castro Valley Blvd.
F201 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015, with method 8020 used for BTX distinction.

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Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039076.

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F202 SOIL

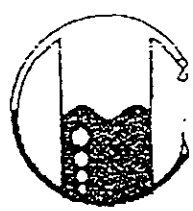
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039077

Sample Description

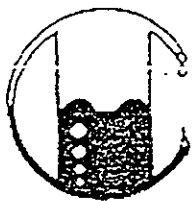
4237-T Castro Valley
2724 Castro Valley Blvd.
F203 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039076

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F204 SOIL

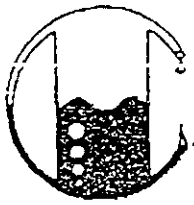
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Ronald G. Evans



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Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039078

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F205 SOIL

ANALYSIS

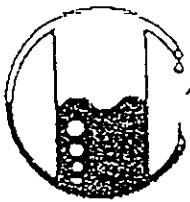
	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	5.3
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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81101



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Shell Oil Co.
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Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039080

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F206 SOIL

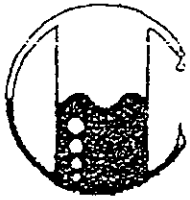
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039081

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F207 SOIL

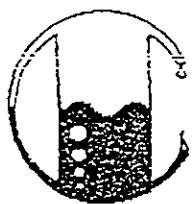
ANALYSIS

	Detection Limit	Sample Results
	PPM	PPM
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Ray D. Deane



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Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

038082

Sample Description

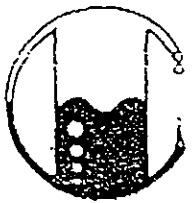
4237-T Castro Valley
2724 Castro Valley Blvd.
F20B SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039083

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F209 SOIL

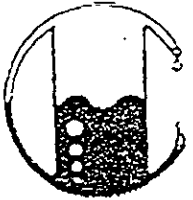
ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	3.3
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Raymond C. Evans
Raymond C. Evans



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Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039084

Sample Description

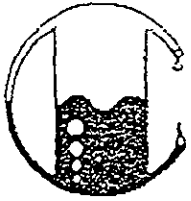
4237-T Castro Valley
2724 Castro Valley Blvd.
F210 SOIL

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	3.8
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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P.O. BOX 4023
Concord, CA 94524
Attn: Ray Newson

Date Sampled: 03-24-89
Date Received: 03-24-89
Date Reported: 02-26-89

Sample Number

039085

Sample Description

4237-T Castro Valley
2724 Castro Valley Blvd.
F211 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Raymond H. Evans

5000 VIK

OF
CON-
TAINERS

SAMPLERS: Signature

Send report attention to;

[Signature]

DAVE SAROFF

TPH-ABT
TPH-D
TO6
SOB

STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	TPH-ABT	TPH-D	TO6	SOB
F200	3/24	3:30		X	SE WALL 5'	X	X	✓	
F 201					" " 10'	✓	✓	✓	
F-202					" " 13'4"	✓	✓	✓	
203					NE WALL 5'	✓	✓	✓	
204					" " 10'	✓	✓	✓	
205					" " 13'4"	✓	✓	✓	
206					NW WALL 5'	✓	✓	✓	
207					" " 10'	✓	✓	✓	
208					" " 13'4"	✓	✓	✓	
209					SW WALL 5'	✓	✓	✓	
210					" " 10'	✓	✓	✓	
211					" " 13'4"	✓	✓	✓	
212					NE WALL 3'6"	X	X	X	

Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time
<i>[Signature]</i>	3/24/89 11:10	<i>[Signature]</i>	3/24/89 17:10
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time

REMARKS:

Company Name:
Address