

**FINAL REPORT
LNAPL ASSESSMENT AND
GROUNDWATER CHARACTERIZATION EVALUATION
(VOLUME II - Appendices)
Part 2**

Mill Springs Park Apartments
1809 Railroad Avenue
Livermore, California

Submitted to:

WINGFIELD VENTURE FUND
125 North Park Avenue
Hinsdale, Illinois 60521

Prepared by:

EARTH TECH
2030 Addison Street, Suite 500
Berkeley, CA 94704

October 9, 1995
Project N^o. 687157.08

**FINAL REPORT
LNAPL ASSESSMENT AND
GROUNDWATER CHARACTERIZATION EVALUATION
Volume II
Part 2**

Mill Springs Park Apartments
Livermore, California

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ZONE 7
WATER RESOURCES ENGINEERING

WELL LOCATION DATA

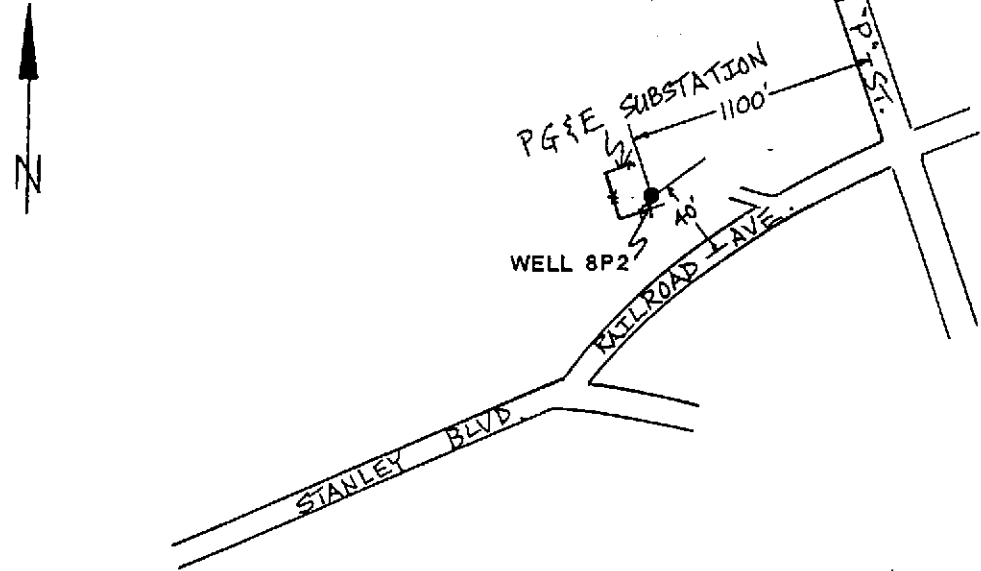
WELL NUMBER 3S / 2E - 8P2

ADDRESS Railroad Avenue between N. "P"
Street & Stanley Blvd., Livermore
OWNER California Water Service Co.,
P.O. Box 1150, San Jose 95108
PRIMARY USE: WATER SUPPLY X
CATHODIC MONITORING
DRILLER J. M. Ough
DATE COMPLETED 11-18-24
DEPTH: COMPLETED 415 FT
 DRILLED 420 FT
DIAMETER 12 IN

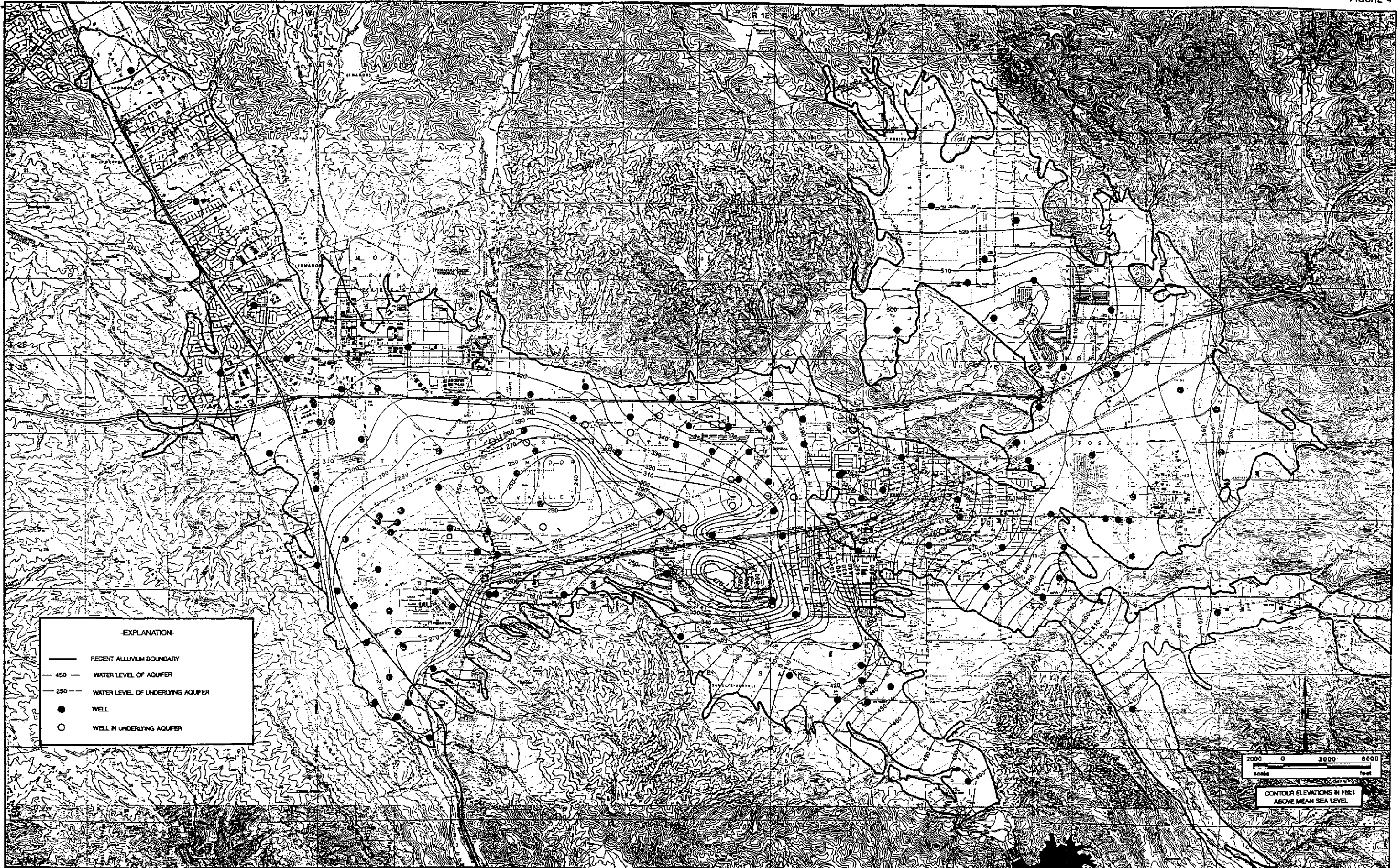
OTHER
DESIGNATION CWS #3
PUMP: TYPE deep well turbine
 MAKE Byron-Jackson
 HP 60
METER NUMBER _____
SOUNDED DEPTH 397 FT
DATE SOUNDED 10-78
DATE DESTROYED _____
DATE UNLOCATABLE _____

REMARKS (Initial and date entry) _____

LOCATION SKETCH
(Initial and Date)



114-12 JAN 87



EXPLANATION

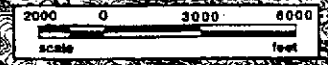
— RECENT ALLUVIUM BOUNDARY

- - - 450 WATER LEVEL OF AQUIFER

· · · 250 WATER LEVEL OF UNDERLYING AQUIFER

● WELL

○ WELL IN UNDERLYING AQUIFER



CONTOUR ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

NO.	DATE	BY	DATE	APPROVED	DESCRIPTION
7					
6					
5					
4					
3					
2					
1					



ZONE 7 WATER AGENCY
 5997 PARKSIDE DRIVE PLEASANTON CA 94588

DRAWN *COATES*
 DESIGNED *Steve J. Pflin*
 CHECKED *Steve J. Pflin*
 APPROVED

WATER RESOURCES ENGINEERING
 FALL 1994
 GROUNDWATER LEVEL CONTOURS

SCALE 1" = 6000'
 DATE 9 JANUARY 1995
 FILE NO. B - 337
 SHEET OF SHEETS



EXPLANATION

- RECENT ALLUVIUM BOUNDARY
- 280— WATER LEVEL OF AQUIFER
- - -400 - - WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER



CONTOUR LEVELS IN FEET ABOVE MEAN SEA LEVEL

REVISIONS	NUMBER	DESCRIPTION	DATE	BY
7				
6				
5				
4				
3				
2				
1				

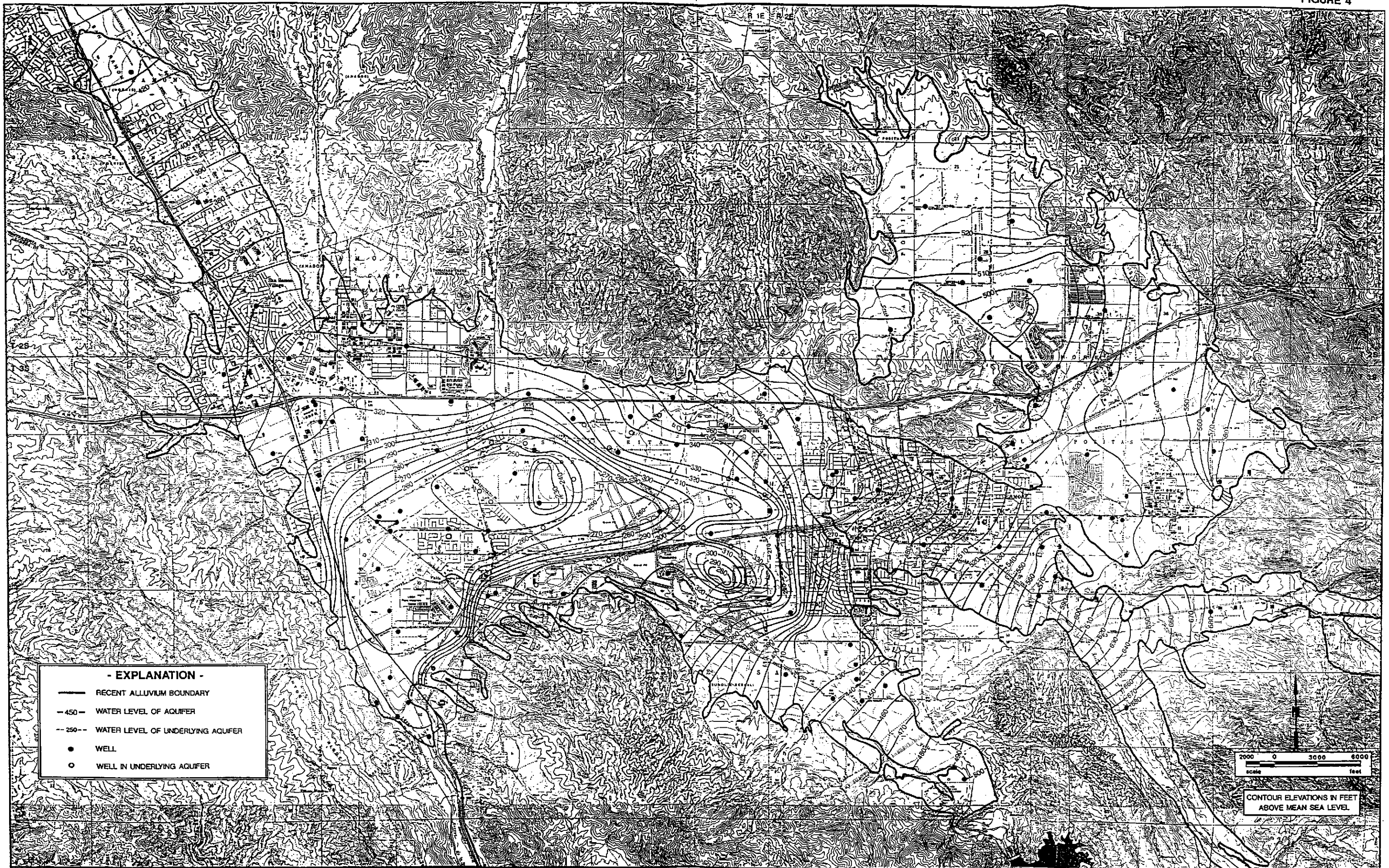
ZONE 7 WATER AGENCY
 5997 PARKSIDE DRIVE PLEASANTON CA 94588

DRAWN *CLAYTON*
 DESIGNED *Steen, J. Ellis*
 CHECKED *Steen, J. Ellis*
 APPROVED

WATER RESOURCES ENGINEERING
 FALL 1993
GROUNDWATER LEVEL CONTOURS

SCALE 1" = 6000'
 DATE 7 DECEMBER 1993
 FILE NO. B-333

SHEET OF SHEETS



- EXPLANATION -

- RECENT ALLUVIUM BOUNDARY
- 450 - WATER LEVEL OF AQUIFER
- - 250 - - WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER



CONTOUR ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

REVISIONS	NUMBER	DESCRIPTION	BY	DATE	APPROV
7					
6					
5					
4					
3					
2					
1					



ZONE 7 WATER AGENCY
 5997 PARKSIDE DRIVE PLEASANTON CA 94588

DRAWN *John L. Weller*
 DESIGNED *Stam L. Ellis*
 CHECKED *Stam L. Ellis*
 APPROVED *DW*

WATER RESOURCES ENGINEERING
 SPRING 1993
GROUNDWATER LEVEL CONTOURS

SCALE	1" = 6000'	SHEET
DATE	24 JUNE 1993	
FILE NO.	B - 331	

OF SHEETS



- EXPLANATION -

- RECENT ALLUVIUM BOUNDARY
- 250- WATER LEVEL OF AQUIFER
- -250 - - WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER

2000 0 3000 6000
Scale feet

CONTOUR ELEVATIONS IN FEET
ABOVE MEAN SEA LEVEL

REVISIONS	NUMBER	DESCRIPTION	BY	DATE	APPROVED
1					
2					
3					
4					
5					
6					
7					

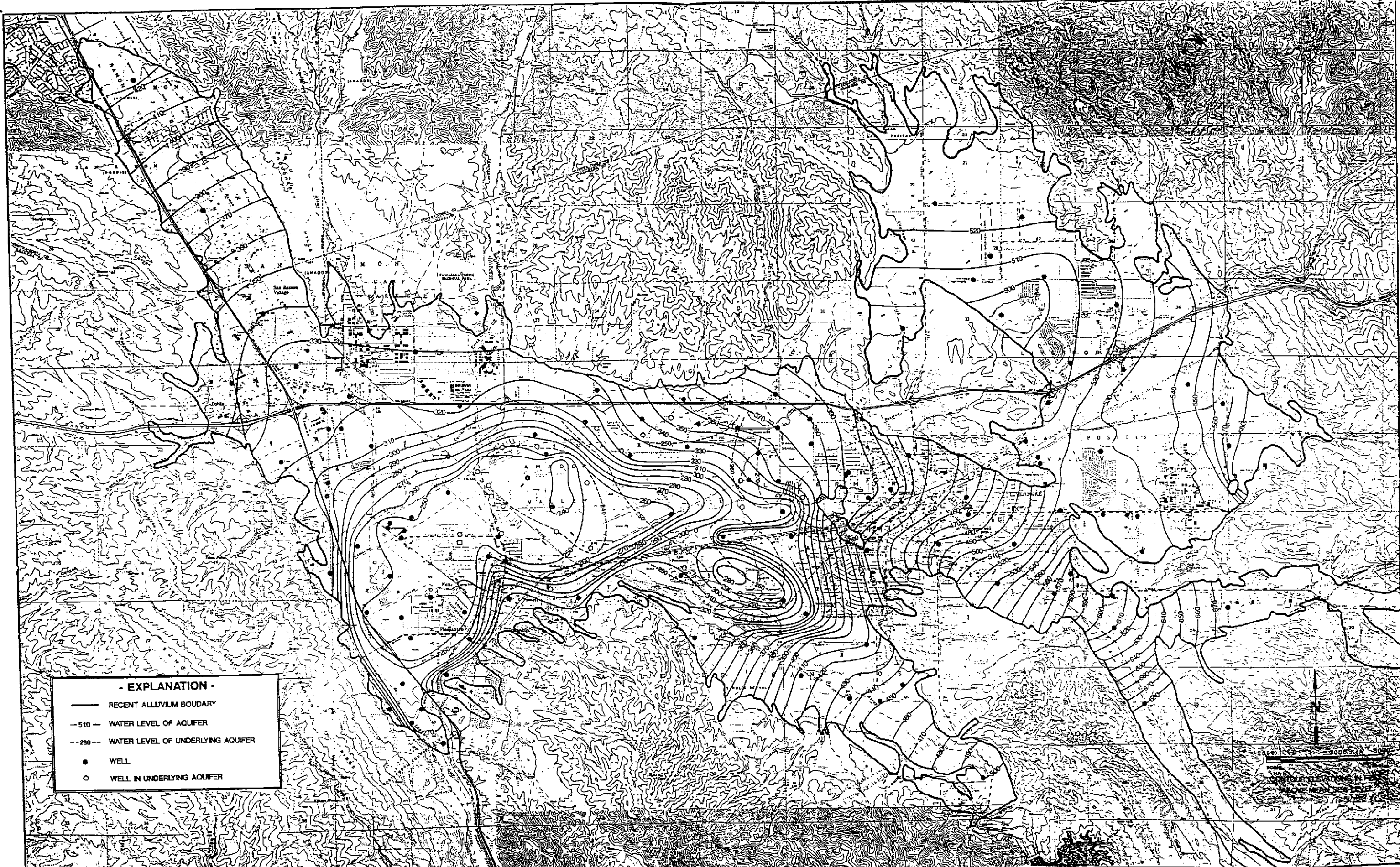


ZONE 7 WATER AGENCY
5997 PARKSIDE DRIVE PLEASANTON CA 94588

DRAWN *John H. Winters*
DESIGNED *Steve J. Ellis*
CHECKED
APPROVED *[Signature]*

WATER RESOURCES ENGINEERING
FALL 1992
GROUNDWATER LEVEL CONTOURS

SCALE 1" = 6,000'
DATE 24 DECEMBER 1992
FILE NO. B - 239
SHEET OF SHEETS



- EXPLANATION -

- RECENT ALLUVIUM BOUNDARY
- 510- WATER LEVEL OF AQUIFER
- 280-- WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER

2000' 3000' 4000'

VERTICAL ELEVATIONS IN FEET
HORIZONTAL MEASUREMENTS IN FEET

7	
6	
5	
4	
3	
2	
1	

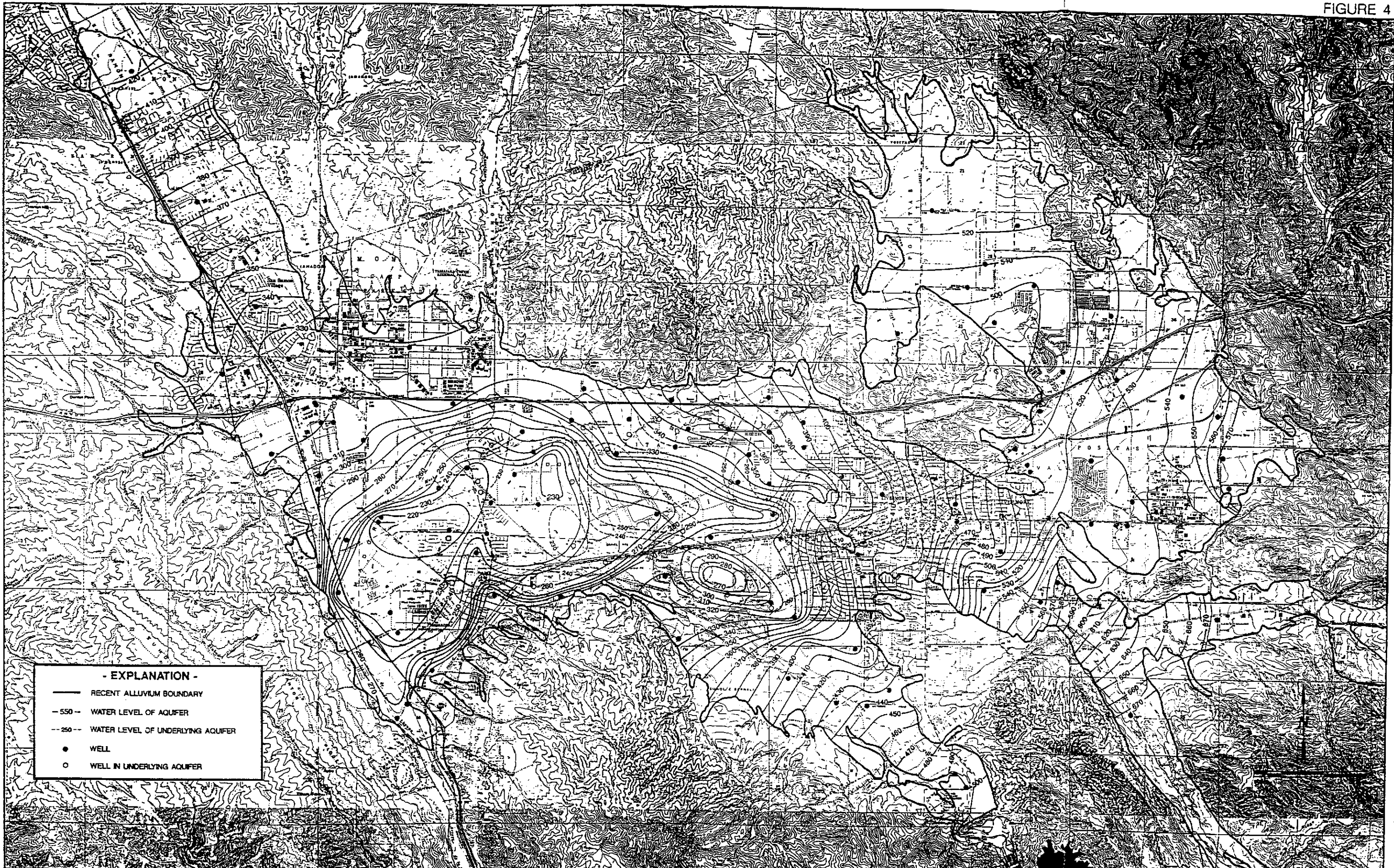


ZONE 7 WATER AGENCY
5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

DRAWN *John R. Winkler*
DESIGNED *Steven A. Ellis*
CHECKED *D.W.H.*
APPROVED

WATER RESOURCES ENGINEERING
SPRING 1992
GROUNDWATER LEVEL CONTOURS

SCALE	1" = 6,000'	SHEET
DATE	25 JUNE 1992	OF SHEETS
FILE NO.	B - 327	



- EXPLANATION -

- RECENT ALLUVIUM BOUNDARY
- 550 - WATER LEVEL OF AQUIFER
- 250 - WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER

REVISIONS	NUMBER	DESCRIPTION	BY	DATE	APPROVED
7					
6					
5					
4					
3					
2					
1					

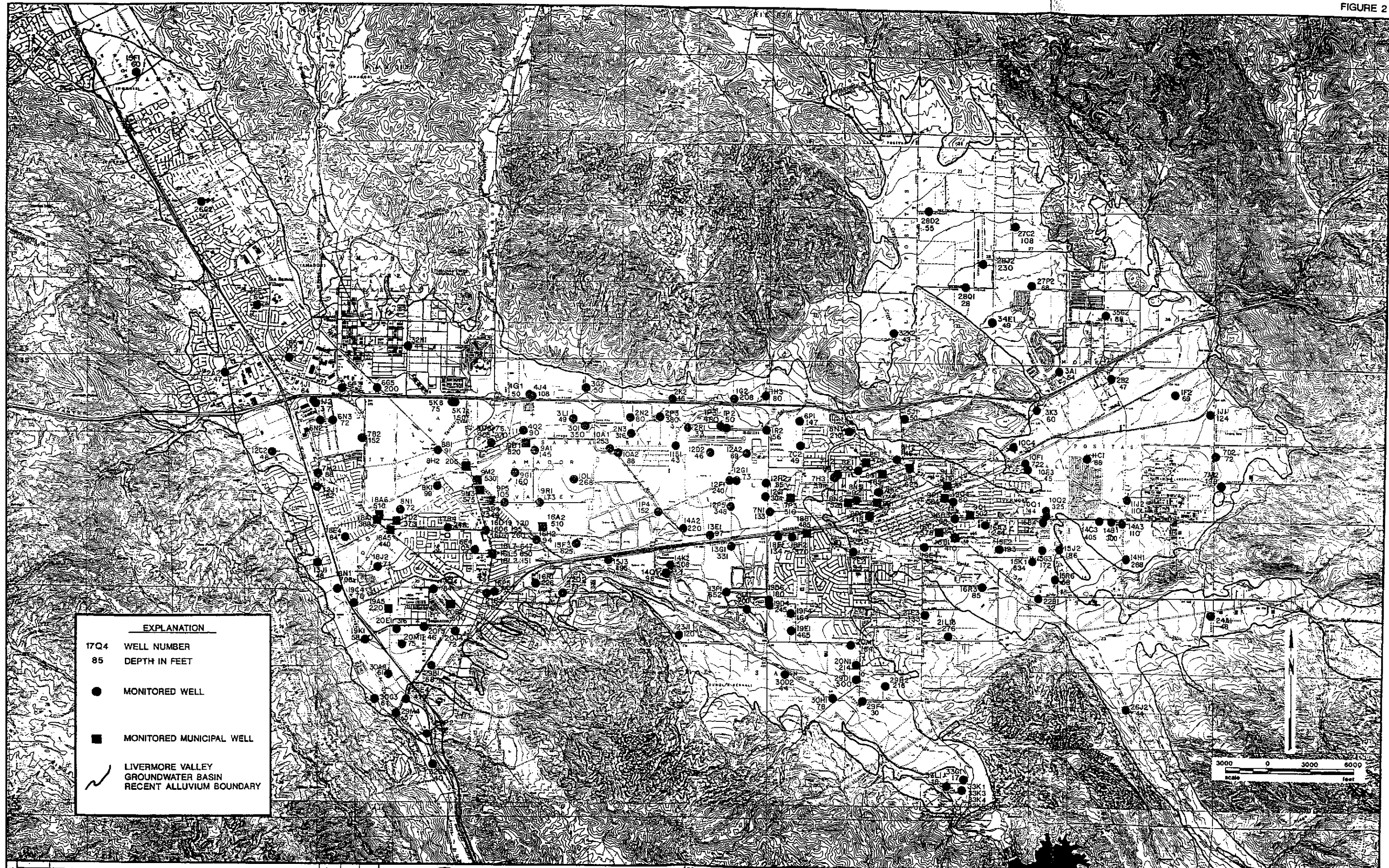


ZONE 7 WATER AGENCY
 5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

DRAWN *John R. Wondolow*
 DESIGNED *John J. Olin David Williams*
 CHECKED *SWJ*
 APPROVED

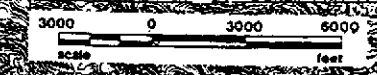
WATER RESOURCES ENGINEERING
 FALL 1991
GROUNDWATER LEVEL CONTOURS

SCALE 1" = 3000'
 DATE 30 JANUARY 1992
 FILE NO. B-325
 SHEET OF SHEETS



EXPLANATION

- 17Q4 WELL NUMBER
- 85 DEPTH IN FEET
- MONITORED WELL
- MONITORED MUNICIPAL WELL
- LIVERMORE VALLEY
GROUNDWATER BASIN
RECENT ALLUVIUM BOUNDARY



REVISIONS	DESCRIPTION	DATE	BY	CHKD.
4	CHANGED WELL DEPTHS FOR 20/11/21, 20/12/21, 20/13/21, 20/14/21, 20/15/21, 20/16/21, 20/17/21, 20/18/21, 20/19/21, 20/20/21, 20/21/21, 20/22/21, 20/23/21, 20/24/21, 20/25/21, 20/26/21, 20/27/21, 20/28/21, 20/29/21, 20/30/21, 20/31/21, 20/32/21, 20/33/21, 20/34/21, 20/35/21, 20/36/21, 20/37/21, 20/38/21, 20/39/21, 20/40/21, 20/41/21, 20/42/21, 20/43/21, 20/44/21, 20/45/21, 20/46/21, 20/47/21, 20/48/21, 20/49/21, 20/50/21, 20/51/21, 20/52/21, 20/53/21, 20/54/21, 20/55/21, 20/56/21, 20/57/21, 20/58/21, 20/59/21, 20/60/21, 20/61/21, 20/62/21, 20/63/21, 20/64/21, 20/65/21, 20/66/21, 20/67/21, 20/68/21, 20/69/21, 20/70/21, 20/71/21, 20/72/21, 20/73/21, 20/74/21, 20/75/21, 20/76/21, 20/77/21, 20/78/21, 20/79/21, 20/80/21, 20/81/21, 20/82/21, 20/83/21, 20/84/21, 20/85/21, 20/86/21, 20/87/21, 20/88/21, 20/89/21, 20/90/21, 20/91/21, 20/92/21, 20/93/21, 20/94/21, 20/95/21, 20/96/21, 20/97/21, 20/98/21, 20/99/21, 20/100/21			
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2	RENUMBERED 10/1/21 TO 10/2/21			
1	ADDED 20/1/21, 20/2/21, 20/3/21, 20/4/21, 20/5/21, 20/6/21, 20/7/21, 20/8/21, 20/9/21, 20/10/21, 20/11/21, 20/12/21, 20/13/21, 20/14/21, 20/15/21, 20/16/21, 20/17/21, 20/18/21, 20/19/21, 20/20/21, 20/21/21, 20/22/21, 20/23/21, 20/24/21, 20/25/21, 20/26/21, 20/27/21, 20/28/21, 20/29/21, 20/30/21, 20/31/21, 20/32/21, 20/33/21, 20/34/21, 20/35/21, 20/36/21, 20/37/21, 20/38/21, 20/39/21, 20/40/21, 20/41/21, 20/42/21, 20/43/21, 20/44/21, 20/45/21, 20/46/21, 20/47/21, 20/48/21, 20/49/21, 20/50/21, 20/51/21, 20/52/21, 20/53/21, 20/54/21, 20/55/21, 20/56/21, 20/57/21, 20/58/21, 20/59/21, 20/60/21, 20/61/21, 20/62/21, 20/63/21, 20/64/21, 20/65/21, 20/66/21, 20/67/21, 20/68/21, 20/69/21, 20/70/21, 20/71/21, 20/72/21, 20/73/21, 20/74/21, 20/75/21, 20/76/21, 20/77/21, 20/78/21, 20/79/21, 20/80/21, 20/81/21, 20/82/21, 20/83/21, 20/84/21, 20/85/21, 20/86/21, 20/87/21, 20/88/21, 20/89/21, 20/90/21, 20/91/21, 20/92/21, 20/93/21, 20/94/21, 20/95/21, 20/96/21, 20/97/21, 20/98/21, 20/99/21, 20/100/21			



ZONE 7 WATER AGENCY
3997 PARKSIDE DRIVE PLEASANTON CA 94588

DRAWN	GOMES
DESIGNED	David W. Lunn
CHECKED	
APPROVED	

WATER RESOURCES ENGINEERING
LOCATION OF MONITORED WELLS

SCALE 1"=6000'
DATE 11 SEPT. 1991
FILE NO. M-319

SHEET
GW
OF SHEETS



EXPLANATION

- RECENT ALLUVIUM BOUNDARY
- 400- WATER LEVEL OF AQUIFER
- 300- WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER
- DEPRESSION

REVISIONS	DATE	BY	DATE	APPROVED



ZONE 7
 ALAMEDA COUNTY FLOOD CONTROL
 AND
 WATER CONSERVATION DISTRICT

DRAWN *GRATES*
 DESIGNED M. J. HORANI
 CHECKED
 APPROVED

WATER RESOURCES ENGINEERING
 FALL 1990
 GROUNDWATER LEVEL CONTOURS

SCALE 1" = 3000'	SHEET
DATE 9 JAN. 1991	OF SHEETS
FILE NO. W-422	



EXPLANATION

- RECENT ALLUVIUM BOUNDARY
- 330- WATER LEVEL OF AQUIFER
- 280- WATER LEVEL OF UNDERLYING AQUIFER
- WELL
- WELL IN UNDERLYING AQUIFER

REVISIONS	DESCRIPTION	BY	DATE	APPROVED
7				
6				
5				
4				
3				
2				
1				

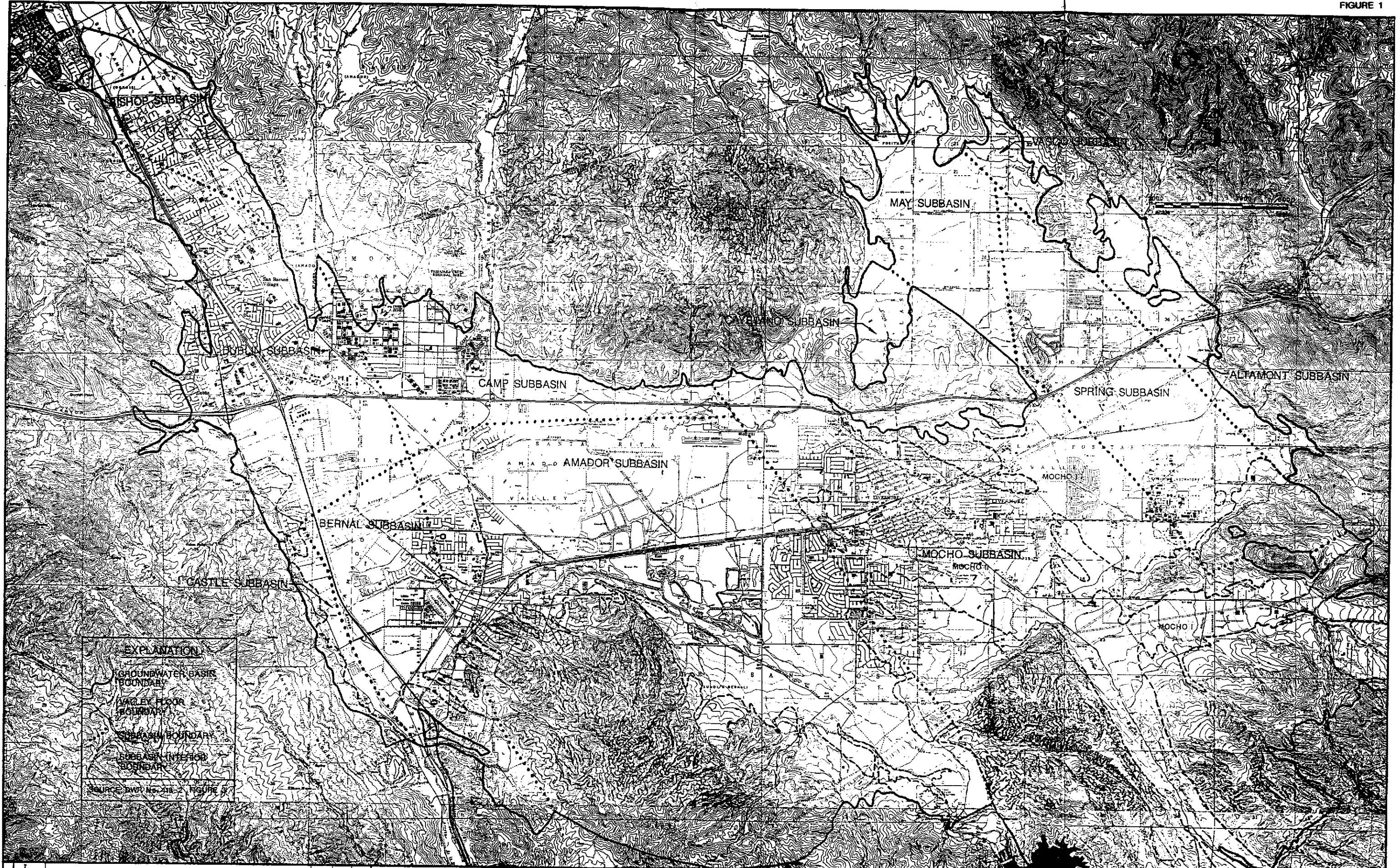


ZONE 7
 ALAMEDA COUNTY FLOOD CONTROL
 AND
 WATER CONSERVATION DISTRICT

DRAWN ANDY YEUNG
 DESIGNED ANDY YEUNG
 CHECKED DAVID LUNN
 APPROVED

WATER RESOURCES ENGINEERING
 SPRING 1990
 GROUNDWATER LEVEL CONTOURS

SCALE	1" = 3000'	SHEET
DATE	JUNE 21, 1990	
FILE NO.	B 322	OF SHEETS



EXPLANATION

- GROUNDWATER BASIN BOUNDARY
- VALLEY FLOOR BOUNDARY
- SUBBASIN BOUNDARY
- SUBBASIN INTERIOR BOUNDARY

REVISIONS	NUMBER	DESCRIPTION	BY	DATE	APPROVED
1					
2					
3					
4					
5					



ZONE 7
 ALAMEDA COUNTY FLOOD CONTROL
 AND
 WATER CONSERVATION DISTRICT

DRAWN *GGATES*
 DESIGNED
 CHECKED *DWZ*
 APPROVED

WATER RESOURCES ENGINEERING
 GROUNDWATER MONITORING PROGRAM
LIVERMORE VALLEY GROUNDWATER BASIN BOUNDARIES

SCALE 1" = 6000'
 DATE 17 FEB 1989
 FILE NO. M-317

SHEET
GW
 OF SHEETS




BOREHOLE LOG

Project Name: Mill Springs Park Apartments		Project Number: 87157.5	
Borehole Location: Area "B"		Borehole Number: B4-1	Page 1 of 1
Drilling Agency: ENSCO		Driller: Tim	
Drilling Equipment: Mobile B-34		Date(s): 09/09/88 - 09/09/88	Total Depth: 16.50'
Drilling Method: Hollow Stem Auger			Depth to Bedrock: None
Drilling Fluid: None		Number of Samples: 4	Depth to Water:
Completion Information: No free groundwater encountered		Borehole Dia.: 8.00in	Elevation: .00' Datum: MSL
		Logged By: J. Alt	Checked By:

Depth (ft)	Number	Type	Blow Count	Sample Time	FID (ppm)	PID (ppm)	Geologic Unit	Graphic	USCS	Lithologic Description	Remarks
									FL	Fill from constructing drilling pad	
5	SD1		35 32						GC	Clayey gravel, dark grey, dry, gravel up to 1" diameter with interbed of wet blue-grey sandy clay between 5 and 6 1/2 feet moist below 6 1/2 feet	
	SD2		23 50								
10	SD3		10 9						CH	Silty clay, brown, moist, with trace sand and gravel	
15	SD4		9 17						SC	Clayey sand and gravel, brown, moist, gravel up to 1/2" in diameter	
20											
											Boring terminated at 16 1/2 feet. No free groundwater encountered. Boring grouted full depth.





BOREHOLE LOG

Project Name: Mill Springs Park Apartments		Project Number: 87157.5	
Borehole Location: Area "B"		Borehole Number: B4-2	Page 1 of 1
Drilling Agency: ENSCO		Driller: Tim	
Drilling Equipment: Mobile B-34		Date(s): 09/09/88 - 09/09/88	Total Depth: 16.50'
Drilling Method: Hollow Stem Auger		Depth to Bedrock: None	
Drilling Fluid: None		Number of Samples: 3	Depth to Water:
Completion Information: No free groundwater encountered		Borehole Dia.: 8.00in	Elevation: .00' Datum: MSL
		Logged By: J. Alt	Checked By:

Depth (ft)	Number	Type	Blow Count	Sample Time	FID (ppm)	PID (ppm)	Geologic Unit	Graphic	USCS	Lithologic Description	Remarks
									FL	Fill from drilling pad construction	
5	SD1		13 12						SC	Clayey sand and gravel, light brown, gravel up to 3/4" diameter	
10	SD2		6 8						CH	Silty clay, light brown, moist, trace gravel	
15	SD3		22 50						SC	Clayey sand and gravel, light brown, gravel up to 1" diameter	
20										Boring terminated at 16 1/2 feet. No free groundwater encountered. Boring grouted full depth.	

BOREHOLE LOG

Project Name: Mill Springs Park Apartments		Project Number: 87157.5	
Borehole Location: Area "B"		Borehole Number: B4-3	Page 1 of 2
Drilling Agency: ENSCO		Driller: Tim	
Drilling Equipment: MObile B-34		Date(s): 09/09/88 - 09/09/88	Total Depth: 26.50'
Drilling Method: Hollow Stem Auger			Depth to Bedrock: None
Drilling Fluid: None		Number of Samples: 5	Depth to Water:
Completion Information: No free groundwater encountered		Borehole Dia.: 8.00in	Elevation: .00' Datum: MSL
		Logged By: J. Alt	Checked By:

Depth (ft)	Number	Type	Blow Count	Sample Time	FID (ppm)	PID (ppm)	Geologic Unit	Graphic	USCS	Lithologic Description	Remarks
5	SD1		12 26						SC	Clayey sand and gravel, blue-grey, gravel up to 1" diameter	
10	SD2		4 8						CH	Clay, green-grey, moist	
15	SD3		10 30						GC	Clayey gravel, green-grey, moist, gravel up to 2" diameter	
20	SD4								SC	Clayey sand and gravel, blue, wet	

BOREHOLE LOG

Project Name: Mill Springs Park Apartments		Project Number: 87157.5	
Borehole Location: Area "B"		Borehole Number: B4-3	Page 2 of 2
Drilling Agency: ENSCO		Driller: Tim	
Drilling Equipment: MOBILE B-34		Date(s): 09/09/88 - 09/09/88	Total Depth: 26.50'
Drilling Method: Hollow Stem Auger			Depth to Bedrock: None
Drilling Fluid: None		Number of Samples: 5	Depth to Water:
Completion Information: No free groundwater encountered		Borehole Dia.: 8.00in	Elevation: .00' Datum: MSL
		Logged By: J. Alt	Checked By:

Depth (ft)	Number	Type	Blow Count	Sample Time	FID (ppm)	PID (ppm)	Geologic Unit	Graphic	USCS	Lithologic Description	Remarks
27	SD5		50						GW	Sandy gravel, light brown, wet, trace clay	
30											
35											
40											
45											
										Boring terminated at 26 1/2 feet. No free groundwater encountered. Boring grouted full depth.	

September 26, 1995

Alameda County Health Agency
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

Attention: Ms. Eva Chu, Hazardous Materials Specialist

Subject: **Results of Air Monitoring for Petroleum Hydrocarbons at Mill Springs
Park Apartments, 1809 Railroad Avenue, Livermore, California**

Telephone

310.495.4449

Facsimile

310.426.0666

Dear Ms. Chu:

This letter presents the results of the air monitoring which was performed by EARTH TECH at various locations of the Mill Springs Park Apartments Complex located at 1809 Railroad Avenue, in the city of Livermore, California. This monitoring was performed by Mr. Johnathan R. Moore, C.S.P., an EARTH TECH Environmental Health and Safety Professional and Mr. Krzysztof Dabrowiecki, also of EARTH TECH.

The monitoring procedure included the use of both integrated sample collection and direct reading techniques. The sampling methodologies and results are individually discussed below.

Integrated Sampling Results

Sampling was accomplished by placing a single air sampling pump equipped with appropriate air sampling media inside the utility rooms of 4 separate buildings of the Mill Springs Park Apartments. Additionally, a single background sample was collected at the rear of the Apartment Manager's Office by placing the air sampling pump on top of the air conditioning chiller unit. Where possible, the air sampling pumps and media were placed at a height of approximately 5 feet. At each location, sample collection was performed for 5 hours.

moore\comm\68715708.rpt

The following sample types were collected at each of the 5 sampling locations:

- NIOSH¹ 1501, Aromatic Hydrocarbons (benzene, toluene, ethyl benzene, xylenes). This analysis was performed using a 400 mg charcoal sampling tube media and gas chromatography (FID²) measurement, and which detects various light (short-chained) hydrocarbon distillation fractions.
- NIOSH 1550, Naphthas, This analysis was also performed using a 400 mg charcoal sampling tube media and gas chromatography (FID²) measurement, which detects various light (short-chained) hydrocarbon distillation fractions refined for use as thinners and general use solvents.

Samples were analyzed by EMS Laboratories of Pasadena, California. Table 1 provides a summary of analytical results [expressed in parts per million (ppm)], while Figure 1 identifies the location of each of the identified sampling locations. Attachment A contains copies of EARTH TECH's sample collection/chain-of-custody forms as provided to EMS, and Attachment B contains a copy of the EMS analytical report.

The concentrations expressed indicate that the levels detected were below the established limits of detection for this sampling methodology. The levels shown can also be interpreted as non-detect.

Direct Reading Results

In addition to the collection of air samples from the utility rooms, direct reading air samples were performed at the openings of 24 irrigation boxes and 5 water meter boxes in order to evaluate the potential presence of hydrocarbon vapors at each of the sample locations. The direct reading air sampling results were obtained using a portable photo-ionization detector (PID) (Thermo Environmental Instruments, Inc., Organic Vapor Monitor, Model 580). Samples were obtained by opening each of the irrigation/water meter boxes and samples were collected

¹National Institute for Occupational Safety and Health

²Flame Ionization Detector

Ms. Eva Chu
Alameda County Health Agency
September 1, 1995

within the ambient air within each location. Table 2 provides a summary of the direct reading results that were obtained using the PID. Locations for each of the direct reading samples are also identified in Figure 1.

The direct reading air sampling results did not indicate that significant levels of hydrocarbon vapors were present at the time of the air monitoring. The maximum level of 1.2 ppm detected by the PID does not confirm or eliminate the possibility of petroleum hydrocarbons being present in the soils associated with the site.

Conclusion

Based on the analytical results obtained, EARTH TECH presents the following conclusions:

- Interpretation of direct reading results obtained from field measurements in below grade valve boxes and water meter boxes do not indicate the presence of significant levels of petroleum hydrocarbons collecting within the air spaces monitored during the field investigation
- Results of integrated air sampling also do not indicate the presence of significant levels of petroleum hydrocarbons collecting within the unoccupied, above ground spaces monitored during this field investigation.

The above findings indicated there is low potential for subsurface vapor migration of petroleum hydrocarbons (in either LNAPL or dissolved form) in the groundwater to impact operation of the Mill Springs Park Apartment site. EARTH TECH further concludes that there is low potential for inhalation exposure to petroleum hydrocarbon vapors or an immediately dangerous to life and health (IDLH) condition caused by the volatilization of petroleum hydrocarbons from the groundwater underlying the site.

Based on the above conclusions, EARTH TECH recommends that additional air sampling is not warranted unless results of chemical analyses of soil samples indicate the presence of volatile petroleum hydrocarbons (gasoline) in near subsurface soils immediately underlying the Mill Spring Apartment site.

Chemical analyses were performed by others nor under direct supervision by EARTH TECH, and were used as reported. The conclusions and recommendations contained herein represent

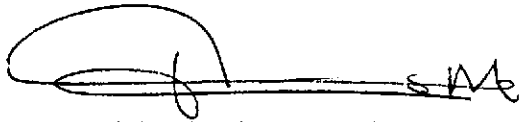
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Ms. Eva Chu
Alameda County Health Agency
September 1, 1995

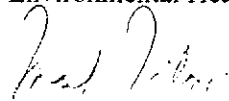
professional opinions prepared consistent with the standards of care and diligence normally practiced by environmental consultants of similar nature in the same locale.

Very truly yours,

EARTH TECH



Johnathan R. Moore, C.S.P.
Environmental Health and Safety Professional

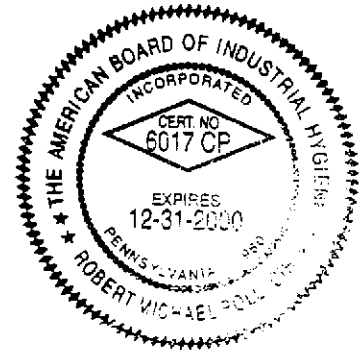


Mark Milani, P.E.
Project Manager

Attachment



Robert M. Poll, C.I.H., C.S.P.
Health and Safety Manager



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Ms. Eva Chu
Alameda County Health Agency
September 1, 1995

Table-1 Summary of Integrated Air Sampling Results

Sample Number	Sample Location	Analytical Results (ppm)				
		Benzene	Toluene	Ethyl Benzene	Xylenes	Hydrocarbons
MSPA-187-1	Bldg.-5 AMS-1	<0.003	<0.002	<0.002	<0.004	<0.003
MSPA-187-2	Bldg.-2 AMS-2	<0.003	<0.002	<0.002	<0.004	<0.003
MSPA-187-3	Bldg.-3 AMS-3	<0.003	<0.002	<0.002	<0.004	<0.003
MSPA-187-4	Bldg.-10 AMS-4	<0.003	<0.002	<0.003	<0.004	<0.003
MSPA-187-5	Background AMS-5	<0.003	<0.002	<0.002	<0.004	<0.003
MSPA-187-6	Blank	<0.0001	<0.0001	<0.0001	<0.0001	<0.0003

Table 2 Direct Reading Air Sampling Results

Sample Location	Sample Result (ppm)	Sample Location	Sample Result (ppm)
IR ¹ -1	1.2	IR-16	<0.1
IR-2	1.2	IR-17	<0.1
IR-3	<0.1	IR-18	<0.1
IR-4	<0.1	IR-19	<0.1
IR-5	<0.1	IR-20	<0.1
IR-6	<0.1	IR-21	<0.1
IR-7	0.2	IR-22	<0.1
IR-8	0.2	IR-23	<0.1
IR-9	0.7	IR-24	<0.1
IR-10	<0.1	WB ² -1	<0.1
IR-11	<0.1	WB-2	<0.1
IR-12	<0.1	WB-3	<0.1
IR-13	<0.1	WB-4	<0.1
IR-14	<0.1	WB-5	<0.1
IR-15	<0.1		

Note: 1. Irrigation Box
2. Water Box

ATTACHMENT 1

EMS LABORATORIES ANALYTICAL REPORT

DATE: July 25, 1995

Page 1 of 3

CLIENT: The Earth Technology Corporation
100 West Broadway, Ste. 5000
Long Beach, CA 90802

ATTENTION: John Moore

REFERENCE: Project # 687157-08

REPORT NO: 35723

DATE RECEIVED: July 11, 1995

SUBJECT: ANALYSIS OF SIX CHARCOAL TUBES AS REQUESTED

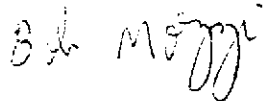
The samples were analyzed according to the following methods.

<u>Analyte</u>	<u>Method</u>
BTEX	NIOSH 1501
Hydrocarbons Scan	NIOSH 1550

The results of the analyses and the detection limit are summarized on the following pages: where applicable, blanks have been subtracted from sample readings.

Respectfully submitted,

EMS LABORATORIES, INC.



Bob Moezzi, Ph.D.
Manager of Chemistry

Note: This report shall not be reproduced except in full without the written consent of EMS Laboratories, Inc.

COMPOUND	DETECTION LIMIT (mg)	
	FRONT	BACK
HYDROCARBONS(1)	<0.0001	<0.0001
BENZENE	<0.0001	<0.0001
TOLUENE	<0.0001	<0.0001
ETHYLBENZENE	<0.0001	<0.0001
XYLENES	<0.0003	<0.0003

SAMPLE ID: CLIENT BLANK COMPOUND	WEIGHT (mg)	
	FRONT	BACK
MSPA-187-6 HYDROCARBONS(1)	<0.0001	<0.0001
BENZENE	<0.0001	<0.0001
TOLUENE	<0.0001	<0.0001
ETHYLBENZENE	<0.0001	<0.0001
XYLENES	<0.0003	<0.0003

THE CLIENT BLANK IS SUBTRACTED OUT FROM THE REST OF THE TEST DATA.
 ppm = parts per million

(1) HYDROCARBONS- AVERAGED AS HEXANE

SAMPLE ID	COMPOUND	WEIGHT (mg)		SAMPLE VOLUME (liters)	CONCENTRATION
		FRONT	BACK		(ppm) TOTAL
MSPA-187-1	HYDROCARBONS(1)	<0.0001	<0.0001	14.31	<0.003
	BENZENE	<0.0001	<0.0001		<0.003
	TOLUENE	<0.0001	<0.0001		<0.002
	ETHYLBENZENE	<0.0001	<0.0001		<0.002
	XYLENES	<0.0003	<0.0003		<0.004

CHEMIST *Michael S. Bayne*

7-20-95

EMS LABORATORIES CHEMISTRY REPORT

Pg. 3 of 3

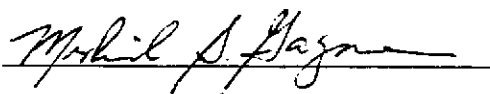
CLIENT: THE EARTH TECHNOLOGY CORP.

LABORATORY NUMBER: 35723

(1) HYDROCARBONS- AVERAGED AS HEXANE

SAMPLE ID	COMPOUND	WEIGHT		SAMPLE VOLUME (liters)	CONCENTRATION
		(mg)			(ppm)
		FRONT	BACK		TOTAL
MSPA-187-2	HYDROCARBONS(1)	<0.0001	<0.0001	14.145	<0.003
	BENZENE	<0.0001	<0.0001		<0.003
	TOLUENE	<0.0001	<0.0001		<0.002
	ETHYLBENZENE	<0.0001	<0.0001		<0.002
	XYLENES	<0.0003	<0.0003		<0.004
MSPA-187-3	HYDROCARBONS(1)	<0.0001	<0.0001	13.95	<0.003
	BENZENE	<0.0001	<0.0001		<0.003
	TOLUENE	<0.0001	<0.0001		<0.002
	ETHYLBENZENE	<0.0001	<0.0001		<0.002
	XYLENES	<0.0003	<0.0003		<0.004
MSPA-187-4	HYDROCARBONS(1)	<0.0001	<0.0001	13.41	<0.003
	BENZENE	<0.0001	<0.0001		<0.003
	TOLUENE	<0.0001	<0.0001		<0.002
	ETHYLBENZENE	<0.0001	<0.0001		<0.003
	XYLENES	<0.0003	<0.0003		<0.004
MSPA-187-5	HYDROCARBONS(1)	<0.0001	<0.0001	14.85	<0.003
	BENZENE	<0.0001	<0.0001		<0.002
	TOLUENE	<0.0001	<0.0001		<0.002
	ETHYLBENZENE	<0.0001	<0.0001		<0.002
	XYLENES	<0.0003	<0.0003		<0.004

CHEMIST



2821 Whipple Road
Union City, CA 94587-1233
(510) 429-8088
(800) 523-8088
FAX (510) 429-8089



INVOICE	DATE	NUMBER
	09/06/95	3623

PROJECT NO: 3546

TO:

GROTH BROS. OLDS., INC.
59 SOUTH L STREET
LIVERMORE, CA 94550
ATTN: MR. RICHARD GROTH

RE:

GROUNDWATER SAMPLING
59 SOUTH L STREET
LIVERMORE, CA 94550

DATE	DESCRIPTION	TOTAL
	TASK - Groundwater sampling Firm Fixed Price	\$940.00
6904	335.00	
27400	705.00 TANK	
	Invoice Total:	\$940.00 =====

Please return the goldenrod copy with your payment.
Thank you for your prompt remittance.

* THIS INVOICE IS DUE UPON RECEIPT AND NO LATER THAN: UPON RECEIPT
1.5% INTEREST WILL BE ASSESSED FOR BALANCE DUE EACH 30 DAYS PAST TERM.



TANK PROTECT ENGINEERING
of Northern California, Inc.

TRANSMITTAL FORM

DATE: 9/6/95 PROJECT NO.: 354

TO: Mr. Richard Groth
59 South L Street
Livermore, CA 94550

FROM: Lee N. Huckins
Tank Protect Engineering
2821 Whipple Road
Union City, CA 94587-1233

WE ARE SENDING YOU ATTACHED UNDER SEPARATE COVER VIA Mail
THE FOLLOWING ITEMS:

- LETTER(S) PROPOSAL(S) TABLE(S)
 FIGURE(S) REPORT(S) WORKPLAN(S)

COPIES	DATED	DESCRIPTION
2	9/6/95	Third Quarter Report, 1995, Groth Bros. Olds, Inc., 59 South L Street, Livermore, CA 94550

Dear Client: This Report and/or Workplan is sent to you for your review and approval. Please read completely and carefully for accuracy regarding site location, background and history. Although you may not be able to verify the technical aspects of the Report and/or Workplan, read these sections for typographical and obvious errors such as missing pages, pages out of order, another client's data in your report, etc. It is TPE's goal to present an accurate, complete, and error free report to the regulatory agencies.

REMARKS: PLEASE KEEP THE ORIGINAL COPY FOR YOURSELF AND MAIL 1 COPY TO EACH OF THE FOLLOWING AGENCIES:

See page 4.

cc: _____

SIGNATURE: *Lee N. Huckins*



September 6, 1995

Mr. Richard Groth
59 South L Street
Livermore, CA 94550

Re: Third Quarter Report, 1995, Groth Bros. Olds, Inc., 59 South L Street,
Livermore, CA 94550

Dear Mr. Groth:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this quarterly letter report of environmental services conducted at the subject site. Previous work conducted at the site is summarized and work conducted during the subject quarter is presented in detail.

Work performed by TPE during second quarter, 1995:

May 1, 1995 - Measured depth-to-groundwater in groundwater monitoring well MW-1 and collected a groundwater sample from the well for analysis for total petroleum hydrocarbons as diesel and gasoline (TPHD and TPHG, respectively); for benzene, toluene, ethylbenzene and xylenes (BTEX); for oil and grease (O&G); for volatile organic compounds (VOC's) and for Ni, Pb, Zn, Cd and Cr (METALS). Also, analyzed a trip blank sample (MW-2) for TPHG and BTEX.

WORK PERFORMED BY TPE DURING THIRD QUARTER, 1995:

August 2, 1995 - Measured depth-to-groundwater in groundwater monitoring well MW-1 and collected a groundwater sample from the well

for analysis for total petroleum hydrocarbons as diesel and gasoline (TPHD and TPHG, respectively); for benzene, toluene, ethylbenzene and xylenes (BTEX); for methyl t-butyl ether (MTBE); for oil and grease (O&G); for volatile organic compounds (VOC's) and for Ni, Pb, Zn, CD and Cr (METALS). Also, analyzed a trip blank sample (MW-2) for TPHG, BTEX, and MTBE.

Details of the above work are presented below.

Depth-To-Groundwater Measurement

On August 2, 1995, depth-to-groundwater was measured from top-of-casing (TOC) in well MW-1 to the nearest 0.01 foot using an electronic Solinst water level meter. A minimum of 3 repetitive measurements were made for each level determination to ensure accuracy.

Depth-to-groundwater was 26.24 feet.

Groundwater Sampling and Analytical Results

On August 2, 1995, a groundwater sample was collected from groundwater monitoring well MW-1. Before sampling, well MW-1 was purged of about 32 liters of groundwater with a dedicated polyethylene bailer and until the temperature, conductivity and pH of the water in the well had stabilized (see attached Record of Water Sampling). Water samples were collected in laboratory provided, sterilized, 1-liter glass bottles and 40-milliliter glass vials having Teflon-lined screw caps, and a 300-milliliter polyethylene bottle; measured for turbidity and labeled with project name, date and time collected, sample number and sampler name. The samples were immediately stored in an iced-cooler for transport to California State Department of Health Services (DHS) certified Trace Analysis Laboratory, Inc. located in Hayward, California accompanied by chain-of-custody documentation.

The groundwater sample was analyzed for TPHD and TPHG by the DHS Method; for BTEX and MTBE by the Modified United States Environmental Protection Agency (EPA) Method 8020; for O&G by (EPA) Method 5520BF; for VOC's by EPA Method

8240; and for METALS by various EPA methods. Trip blank sample MW-2 was analyzed for TPHG BTEX and MTBE.

The well was checked for floating product using a dedicated, disposable polyethylene bailer. No odor, sheen, or floating product was detected in the well.

Purge water is stored on site in 55-gallon drums labeled to show material stored, known or suspected chemical contaminant, date filled, expected removal date, company name, contact person and telephone number.

See attached protocols for TPE's sample handling, groundwater monitoring well sampling and quality assurance and quality control procedures.

Analytical results detected TPHD, TPHG, nickel and zinc in well MW-1 at concentrations of 110 parts per billion (ppb), 160 ppb, 65 ppb and 39 ppb, respectively. EPA method 8240 detected tetrachloroethene at a concentration of 150 ppb. All other analytical results were nondetectable.

TPHG, BTEX and MTBE chemicals were nondetectable in trip blank sample MW-2.

Analytical results are summarized in attached Tables 1 and 2 and documented in the attached certified analytical reports and a chain-of-custody.

DISCUSSION AND RECOMMENDATIONS

TPHD, TPHG, nickel, and zinc were detected in well MW-1 at concentrations of 110 ppb, 160 ppb, 65 ppb and 39 ppb. Tetrachloroethene was detected in a concentration of 150 ppb.

TPE recommends continued quarterly groundwater sampling to establish trends of contaminant concentrations.

The next sampling event is due on or about November 1, 1995.

An additional copy of this report has been included for your delivery to:

Ms. Eva Chu
Alameda County Health
Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, #250
Alameda, CA 94502

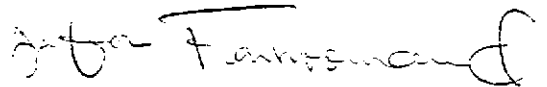
TPE recommends that this quarterly letter report be submitted with a cover letter from Groth Bros. Olds, Inc. signed by an authorized representative.

If you have any questions, please call TPE at (510) 429-8088.

Sincerely,



Lee N. Huckins
Registered Geologist



Jeff Farhood, M.S.
Principal Engineer



Expiration Date 5/31/97

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb¹)

Sample ID Name	Date	TPHD	TPHG	Methyl t-Butyl Ether	Benzene	Toluene	Ethyl-benzene	Xylenes	Oil & Grease
MW-1	05/01/95	<50	160	NA	<0.50	<0.50	<0.50	<1.5	<5,000
	08/02/95	110	160	<5.0	<0.50	<0.50	<0.50	<1.5	<5,000
MW-2 ²	05/01/95	NA ³	<50	NA	<0.50	<0.50	<0.50	<1.5	NA
	08/02/95	NA	<50	<5.0	<0.50	<0.50	<0.50	<1.5	NA

¹ PARTS PER BILLION

² TRIP BLANK

³ NOT ANALYZED

TABLE 2
 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
 FOR METALS
 (ppb¹)

Sample ID Name	Date	Cadmium	Chromium	Lead	Nickel	Zinc
MW-1 ²	05/01/95	<5.0	<50	<100	60	54
	08/02/95 ³	<5.0	<50	<100	65	39

¹ PARTS PER BILLION

² ALSO ANALYZED BY EPA METHOD 8240. TRICHLOROETHENE AND TETRACHLOROETHENE WERE DETECTED AT CONCENTRATIONS OF 5.4 ppb AND 210 ppb, RESPECTIVELY.

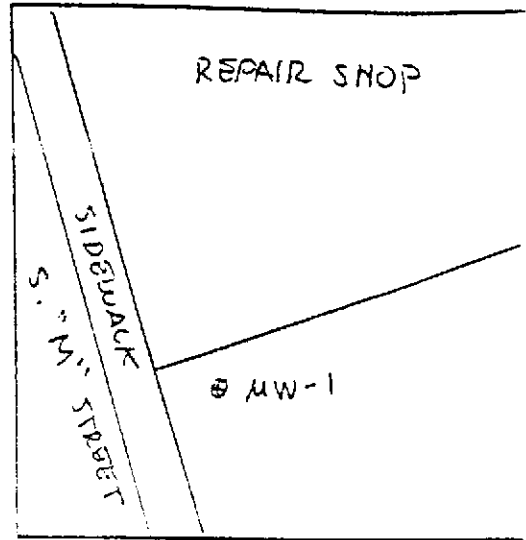
³ EPA METHOD 8240 DETECTED TETRACHLOROETHENE AT A CONCENTRATION OF 150 ppb.

RECORD OF WATER SAMPLING

PROJECT NO.: 354 DATE: 8/2/95
 PROJECT NAME: GROTH PROS. OLDS, INC.
 PROJECT LOCATION: 59 S. "L" STREET, LIVERMORE
 SAMPLER: MRV
 ANALYSES: TPHD, TPH6, BTEX, METALS, 8240, MTBE

WELL NO.: MW-1
 WELL DIAMETER: 2"
 TOC ELEV: ..
 LOCK NO.: P-605

WELL DEPTH (from construction detail): _____
 WELL DEPTH (measured): 43.7 SOFT BOTTOM?: YES
 DEPTH TO WATER: 26.24' TIME: 2:55
 PRESSURE (circle one): YES OR NO?
 IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?



LOCATION MAP

WATER VOLUME IN WELL: 2.89 GAL
 [2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT]
 [6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78 L]

CALCULATED PURGE VOL. (GAL): 8.4 (L): 31.7 ACTUAL PURGE VOL. (GAL): 8.5 (L): 32
 PURGE METHOD: POU BALVER SAMPLE METHOD: POU BALVER

FIELD MEASUREMENTS

Time	Depth to Water (FT)	Vol (L)	Temp (Deg. F)	pH	EC	Clarity	Turbidity (NTU)	Remarks
3:05		1	80.2	8.81	1.18	CLR		NO ODR
3:19		26	77.2	8.09	.99	"		
3:20		27	75.5	7.93	.98	"		
3:21		28	73.2	7.89	1.03	"		
3:22		29	71.8	7.89	.95	"		
3:23		30	71.8	7.85	.98	"		
3:24		31	71.3	7.85	.95	"		
3:25		32	71.7	7.81	.99	"		
3:30		33					127.2	SAMPLES TAKEN

SIGNATURE: *[Handwritten Signature]*

WATER VOL. IN DRUM: _____
 NEED NEW DRUM?: _____

SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination and will be delivered to the laboratory in an iced-cooler. The following sample packaging requirements will be followed.

- . Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers and have custody seals affixed to them.
- . Samples will be secured in coolers to maintain custody, control temperature and prevent breakage during transportation to the laboratory.
- . A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory.
- . Ice, blue ice or dry ice (dry ice will be used for preserving soil samples collected for the Alameda County Water District) will be used to cool samples during transport to the laboratory.
- . Water samples will be cooled with crushed ice. In the Alameda County Water District, water samples will be buried in the crushed ice with a thermometer, and the laboratory will be requested to record thermometer temperature at the time of receipt.
- . Each sample will be identified by affixing a pressure sensitive, gummed label or standardized tag on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection and the collector's initials.
- . Soil samples collected in brass tubes will be preserved by covering the ends with Teflon tape and capping with plastic end-caps. The tubes will be labeled, sealed in quart size bags and placed in an iced-cooler for transport to the laboratory.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

Sample Control/Chain-of-Custody: All field personnel will refer to this workplan to verify the methods to be employed during sample collection. All sample gathering activities will be recorded in the site file; all sample transfers will be documented in the chain-of-custody; samples will be identified with labels; all sample bottles will be custody-sealed. All information is to be recorded in waterproof ink. All TPE field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician or professional who has been designated by the TPE project manager as being responsible for sample shipment to the appropriate laboratory. The custody record will include, among other things, the following information: site identification, name of person collecting the samples, date and time samples were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used and signature of the TPE person relinquishing samples to a non-TPE person with the date and time of transfer noted. The relinquishing individual will also put all the specific shipping data on the custody record.

Records will be maintained by a designated TPE field employee for each sample: site identification, sampling location, station number, date, time, sampler's name, designation of the sample as a grab or composite, notation of the type of sample (e.g., groundwater, soil boring, etc.), preservatives used, onsite measurement data and other observations or remarks.

GROUNDWATER MONITORING WELL SAMPLING PROCEDURES

Groundwater monitoring wells will not be sampled until at least 24 to 72 hours (according to local regulatory guidelines) after well development. Groundwater samples will be obtained using a bladder pump, clear Teflon bailer or dedicated polyethylene bailer. Prior to collecting samples, the sampling equipment will be thoroughly decontaminated to prevent introduction of contaminants into the well and to avoid cross-contamination. Monitoring wells will be sampled after 3 to 10 wetted casing volumes of groundwater have been evacuated and pH, electrical conductivity and temperature have stabilized as measured with a Hydac Digital Tester. If the well is emptied before 3 to 10 well volumes are removed, the sample will be taken when the water level in the well recovers to 80% or more of its initial water level.

When a water sample is collected, turbidity of the water will be measured and recorded with a digital turbidimeter. Degree of turbidity will be measured and recorded in nephelometric turbidity units (NTU).

TPE will also measure the thickness of any floating product in the monitoring wells using an interface probe or clear Teflon or polyethylene bailer. The floating product will be measured after well development but prior to the collection of groundwater samples. If floating product is present in the well, TPE will recommend to the client that product removal be commenced immediately and reported to the appropriate regulatory agency.

Unless specifically waived or changed by the local, prevailing regulatory agency, water samples will be handled and preserved according to the latest United States Environmental Protection Agency methods as described in the Federal Register (Volume 44, No. 233, Page 69544, Table II) for the type of analysis to be performed.

Development and/or purge water will be stored on site in labeled containers. The disposal of the containers and development and/or purge water is the responsibility of the client.

MEASUREMENTS

Purged Water Parameter: During purging, discharged water will be measured for the following parameters.

<u>Parameter</u>	<u>Units of Measurement</u>
pH	None
Electrical Conductivity	Micromhos
Temperature	Degrees F or C
Depth to Water	Feet/Hundredths
Volume of Water Discharged	Gallons
Turbidity	NTU

Documentation: All parameter measurements will be documented in writing on TPE development logs.

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

The overall objectives of the field sampling program include generation of reliable data that will support development of a remedial action plan. Sample quality will be checked by the use of proper sampling, handling and testing methods. Additional sample quality control methods may include the use of background samples, equipment rinsate samples and trip and field blanks. Chain-of-custody forms, use of a qualified laboratory, acceptable detection limits and proper sample preservation and holding times also provide assurance of accurate analytical data.

TPE will follow a quality assurance and quality control (QA/QC) program in the field to ensure that all samples collected and field measurements taken are representative of actual field and environmental conditions and that data obtained are accurate and reproducible. These activities and laboratory QA/QC procedures are described below.

Field Samples: Additional samples may be taken in the field to evaluate both sampling and analytical methods. Three basic categories of QA/QC samples that may be collected are trip blanks, field blanks and duplicate samples.

Trip blanks are a check for cross-contamination during sample collection, shipment, and laboratory analysis. They are water samples that remain with the collected samples during transportation and are analyzed along with the field samples to check for residual contamination. Analytically confirmed organic-free water will be used for organic parameters and deionized water for metal parameters. Blanks will be prepared by the laboratory supplying the sample containers. The blanks will be numbered, packaged and sealed in the same manner as the other samples. One trip blank will be used for each sample set of less than 20 samples. At least 5% blanks will be used for sets greater than 20 samples. The trip blank is not to be opened by either the sample collectors or the handlers.

The field blank is a water sample that is taken into the field and is opened and exposed at the sampling point to detect contamination from air exposure. The water

sample is poured into appropriate containers to simulate actual sampling conditions. Contamination due to air exposure can vary considerably from site to site.

The laboratory will not be informed about the presence of trip and field blanks, and false identifying numbers will be put on the labels. Full documentation of these collection and decoy procedures will be made in the site log book.

Duplicate samples are identical sample pairs (collected in the same place and at the same time), placed in identical containers. For soils, adjacent sample liners will be analyzed. For the purpose of data reporting, one is arbitrarily designated the sample, and the other is designated as a duplicate sample. Both sets of results are reported to give an indication of the precision of sampling and analytical methods.

The laboratory's precision will be assessed without the laboratory's knowledge by labeling one of the duplicates with false identifying information. Data quality will be evaluated on the basis of the duplicate results.

Laboratory QA/QC: Execution of a strict QA/QC program is an essential ingredient in high-quality analytical results. By using accredited laboratory techniques and analytical procedures, estimates of the experimental values can be very close to the actual value of the environmental sample. The experimental value is monitored for its precision and accuracy by performing QC tests designed to measure the amount of random and systematic errors and to signal when correction of these errors is needed.

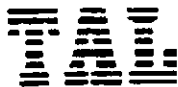
The QA/QC program describes methods for performing QC tests. These methods involve analyzing method blanks, calibration standards, check standards (both independent and the United States Environmental Protection Agency-certified standards), duplicates, replicates and sample spikes. Internal QC also requires adherence to written methods, procedural documentation and the observance of good laboratory practices.

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (510) 783-6960

Facsimile (510) 783-1512



August 25, 1995

Mr. Jeff Farhoomand
Tank Protect Engineering
2821 Whipple Road
Union City, California 94587

Dear Mr. Farhoomand:

Trace Analysis Laboratory received two water samples on August 3, 1995 for your Project No. 354-080295, Groth Bros., 59 South "L" Street, Livermore (our custody log number 5739).

These samples were analyzed according to your chain of custody. Our analytical report and the completed chain of custody form are enclosed for your review.

Trace Analysis Laboratory is certified under the California Environmental Laboratory Accreditation Program. Our certification number is 1199.

If you should have any questions or require additional information, please call me.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Scott T. Ferriman', written over a horizontal line.

Scott T. Ferriman
Project Specialist

Enclosures

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (510) 783-6960
Facsimile (510) 783-1512



LOG NUMBER: 5739
DATE SAMPLED: 08/02/95
DATE RECEIVED: 08/03/95
DATE EXTRACTED: 08/23/95
DATE ANALYZED: 08/24/95
DATE REPORTED: 08/25/95

CUSTOMER: Tank Protect Engineering
REQUESTER: Jeff Farhoomand
PROJECT: No. 354-080295, Groth Bros., 59 South "L" Street, Livermore

Sample Type: Water

Method and Constituent:	Units	MW-1		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
Standard Method 5520BF:					
Hydrocarbon					
Oil and Grease	ug/l	ND	5,000	ND	5,000

QC Summary:

% Recovery: 96
% RPD: 13

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 5739
 DATE SAMPLED: 08/02/95
 DATE RECEIVED: 08/03/95
 DATE EXTRACTED: 08/16/95
 DATE ANALYZED: 08/25/95
 DATE REPORTED: 08/25/95
 PAGE: Two

Sample Type: Water

Method and Constituent:	Units	MW-1		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:					
Total Petroleum Hydro- carbons as Diesel	ug/l	110	50	ND	50

QC Summary:

% Recovery: 92
 % RPD: 31

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 5739
 DATE SAMPLED: 08/02/95
 DATE RECEIVED: 08/03/95
 DATE ANALYZED: 08/11/95
 DATE REPORTED: 08/25/95
 PAGE: Three

Sample Type: Water

Method and Constituent:	Units	MW-1		MW-2		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:							
Total Petroleum Hydro- carbons as Gasoline	ug/l	160	50	ND	50	ND	50
Modified EPA Method 8020 for:							
Methyl t-Butyl Ether	ug/l	ND	5.0	ND	5.0	ND	5.0
Benzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Toluene	ug/l	ND	0.50	ND	0.50	ND	0.50
Ethylbenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Xylenes	ug/l	ND	1.5	ND	1.5	ND	1.5

QA Summary:

% Recovery: 125
 % RPD: 11

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 5739
 DATE SAMPLED: 08/02/95
 DATE RECEIVED: 08/03/95
 DATE ANALYZED: 08/14/95
 DATE REPORTED: 08/25/95
 PAGE: Four

Sample Type: Water

Method and Constituent:	Units	MW-1		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8240:					
Chloromethane	ug/l	ND	5.0	ND	5.0
Bromomethane	ug/l	ND	5.0	ND	5.0
Dichlorodifluoromethane	ug/l	ND	5.0	ND	5.0
Vinyl Chloride	ug/l	ND	10	ND	10
Chloroethane	ug/l	ND	10	ND	10
Iodomethane	ug/l	ND	100	ND	100
Methylene Chloride	ug/l	ND	140	ND	140
Acetone	ug/l	ND	100	ND	100
Carbon Disulfide	ug/l	ND	100	ND	100
Trichlorofluoromethane	ug/l	ND	10	ND	10
1,1-Dichloroethene	ug/l	ND	5.0	ND	5.0
Allyl Chloride	ug/l	ND	5.0	ND	5.0
1,1-Dichloroethane	ug/l	ND	5.0	ND	5.0
Trans-1,2-Dichloroethene	ug/l	ND	5.0	ND	5.0
Chloroform	ug/l	ND	5.0	ND	5.0
2-Butanone (MEK)	ug/l	ND	100	ND	100
1,2-Dichloroethane	ug/l	ND	5.0	ND	5.0
Dibromomethane	ug/l	ND	5.0	ND	5.0
1,1,1-Trichloroethane	ug/l	ND	5.0	ND	5.0
Carbon Tetrachloride	ug/l	ND	5.0	ND	5.0

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 5739
 DATE SAMPLED: 08/02/95
 DATE RECEIVED: 08/03/95
 DATE ANALYZED: 08/14/95
 DATE REPORTED: 08/25/95
 PAGE: Six

Sample Type: Water

Method and Constituent	Units	MW-1		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 8240 (Continued):					
1,2-Dibromo 3-Chloropropane	ug/l	ND	100	ND	100
Benzyl Chloride	ug/l	ND	100	ND	100
Styrene	ug/l	ND	5.0	ND	5.0
Xylenes	ug/l	ND	15	ND	15
1,3-Dichlorobenzene	ug/l	ND	5.0	ND	5.0
1,2-Dichlorobenzene	ug/l	ND	5.0	ND	5.0
1,4-Dichlorobenzene	ug/l	ND	5.0	ND	5.0
<u>Surrogate % Recovery</u>					
1,2-Dichloroethane-d4			53		46
Toluene-d8			98		95
4-Bromofluorobenzene			97		95

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 5739
 DATE SAMPLED: 08/02/95
 DATE RECEIVED: 08/03/95
 DATE EXTRACTED: 08/07/95
 DATE ANALYZED: 08/09/95 and 08/10/95
 DATE REPORTED: 08/25/95
 PAGE: Seven

Sample Type: Water

Method and Constituent:	Units	MW-1		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 213.1: Cadmium	ug/l	ND	5.0	ND	5.0	100	4.4
EPA Method 218.1: Chromium	ug/l	ND	50	ND	50	95	6.0
EPA Method 239.1: Lead	ug/l	ND	100	ND	100	84	6.2
EPA Method 249.1: Nickel	ug/l	65	40	ND	40	88	6.0
EPA Method 289.1: Zinc	ug/l	39	5.0	ND	5.0	94	4.8

Concentrations reported as ND were not detected at or above the reporting limit.

Stephen Desjardins
 for Louis W. DuPuis
 Quality Assurance/Quality Control Manager

5739



TANK PROTECT ENGINEERING

2821 WHIPPLE ROAD
UNION CITY, CA 94587
(415)429-8088
(800)523-8088
FAX(415)429-8089

LAB: TRACE ANALYSIS

TURNAROUND: 15 DAYS

P.O. #: 1087

PAGE 1 OF 1

CHAIN OF CUSTODY

PROJECT NO.		SITE NAME & ADDRESS					TYPE OF CONTAINER	ANALYTES REQUESTED							REMARKS				
354-08295		GADTH BROS. 59 S. "L" ST. LIVERMORE						TOTAL LIGHT BC	AROMATIC BC	TOTAL BC (BTX)	OLL & GREASE BC	POC SOAN (COPPER)	OTHER X	METALS Ni, Pb, Zn, Cd, Cr					
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER							ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION							
MARK R. VARNBY 2821 WHIPPLE ROAD, UNION CITY, CA 94587 (415) 429-8088																			
MW-1	8/2/95	3:30			X		500 ml PLASTIC												
"	"	"			"		LITER AMBER		X										
"	"	"			"		2-40ml VOAS	X	X									ALSO ANALYZE FOR MTBE	
"	"	"			"		LITER AMBER			X									
"	"	"			"		2-40ml VOAS				X								
MW-2	"	4:00			"		2-40ml VOAS	X	X										

Relinquished by: (Signature) <i>Mark R. Varnby</i>	Date / Time 8/3/95 1205	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Scott J. ...</i>	Date / Time 8/3/95 1205	Remarks	

plu, water, 2-e, 6-VOAS, 1 soan, on in, Green, Tray 1, Reg

DATE: 8/2/95

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

StID 2935

June 13, 1994

Mr. Dick Groth
59 South L Street
Livermore, CA 94550

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Subject: QMR for 59 South L Street, Livermore

I have completed review of GeoStrategies' May 1994 Subsurface Investigation Relating to Waste Oil Hydrocarbons report for the above referenced site. This report summarizes the advancement of four soil borings, and converting one into a monitoring well, to delineate the extent of soil and groundwater contamination resulting from the hydrocarbon release at this site.

At this time a quarterly monitoring schedule should be established for the site. The next sampling episode should be in August 1994. Groundwater should be analyzed for TPH-G, TPH-D, BTEX, TOG, VOCs, and the five metals Cd, Cr, Pb, Ni, and Zn. Quarterly monitoring reports (QMRs) are also due 45 days after completion of field activities, until this site qualifies for site closure.

If you have any questions, I can be reached at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Eva Chu".

eva chu
Hazardous Materials Specialist

cc: Robert Campbell, GeoStrategies, 6747 Sierra Ct, Suite G,
Dublin, 94568
files

groth5



SUBSURFACE INVESTIGATION
RELATING TO WASTE OIL HYDROCARBONS

at
Groth Brothers Oldsmobile-GMC
59 South L Street
Livermore, California

6136.01

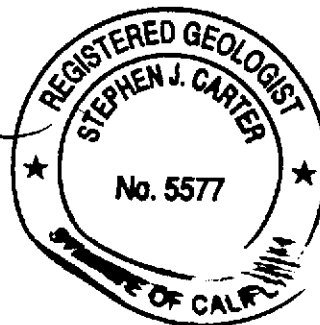
Report prepared for

Mr. Dick Groth
Groth Brothers Oldsmobile-GMC
59 South L Street
Livermore, California 94550

by
GeoStrategies Inc.

ALCO
HAZMAT
54 JUN -6 PM 4:49

Robert D. Campbell
Project Geologist

Stephen J. Carter
Senior Project Geologist

May 31, 1994

May 31, 1994

CONCLUSIONS

Based on the results of this investigation, GSI concludes the following:

- The absence of TPH-G, TPH-D, and TPH-MO in soil samples, the absence of TPH-D, TPH-MO, and TOG in groundwater sample, and the low concentrations of TOG in soil samples suggests that waste-oil and motor-oil hydrocarbons have not impacted groundwater beneath the subject site;
- Metals Cr, Ni, Pb, and Zn detected in both soil and groundwater samples appear to be background concentrations. The concentrations of Cr, Ni, Pb, and Zn are below current Title 26 and State MCL ^{NO!} concentrations for these metals; and
- The absence of PCE and TCE in the soil samples collected from borings B-1 through B-4 suggests that the PCE and TCE detected in the groundwater sample from well MW-1 are from a source other than the former waste oil tank.

RECOMMENDATIONS

Based on the conclusions of this investigation, GSI recommends the following:

- Perform quarterly groundwater monitoring for well MW-1 for one year.
- Conduct a records research survey to identify potential primary sources of PCE and TCE in the immediate vicinity of the subject site.

TABLE 2
RESULTS OF LABORATORY ANALYSES
OF WATER SAMPLES
Groth Brothers Oldsmobile-GMC
Livermore, California

Sample ID	TPH-G (PPB)	TPH-D (PPB)	TPH-MO (PPB)	TOG (PPM)	VOCs (PPB)	Cd (PPB)	Cr (PPB)	Ni (PPB)	Pb (PPB)	Zn (PPB)
<u>May 2, 1994</u>										
MW-1	110*	<50	<100	<5.0	PCE (400)** TCE (5)**	<5.0	954	3,700	66.1	562
Trip Blank	<50	<50	<100	<5.0	<5	NA	NA	NA	NA	NA

All results shown in parts per million (PPB), with the exception of TOG which is reported in parts per million (PPM).

TPH-G = Total petroleum hydrocarbons as gasoline using EPA Method 8015 (modified).

TPH-D = Total petroleum hydrocarbons as diesel using EPA Method 8015 (modified).

TPH-MO = Total petroleum hydrocarbons as motor oil using EPA Method 8015 (modified).

TOG = Total oil and grease using Standard Method 5520 B&F.

VOCs = Volatile organic compounds using EPA Method 8240.

Metals Cd (cadmium), Cr (chromium), Ni (nickel), Pb (lead), and zinc (Zn) using EPA Method 6010.

NA = Not analyzed.

* = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.

** = In addition to the PCE and TCE detected in the groundwater sample, the laboratory reported values for methylene chloride and acetone that are near the method blank contamination levels, and are laboratory contaminants.

MCLs for Drinking Water (CRWQCB, 1991) (There is no MCL for Ni)

TCE: 5 ppb

PCE: 5 ppb

Cd: 10 ppb

Cr: 50 ppb

Pb: 50 ppb

Zn: 6,000 ppb

Sample Identification:

MW-1

|
└──────────┘

Monitoring Well

TABLE 1
RESULTS OF LABORATORY ANALYSES
OF SOIL SAMPLES
Groth Brothers Oldsmobile-GMC
Livermore, California

Sample ID	TPH-G (PPM)	TPH-D (PPM)	TPH-MO (PPM)	TOG (PPM)	VOCs (PPM)	Cd (PPM)	Cr (PPM)	Ni (PPM)	Pb (PPM)	Zn (PPM)
<u>April 26, 1994</u>										
B1-18	<0.5	<10	<10	<5.0	5*	<0.25	56.8	173	4.0	37.1
B2-18	<0.5	<10	<10	7.8	<5	<0.25	54.7	122	4.0	37.2
B3-18	<0.5	<10	<10	5.8	17*	<0.25	32.8	82.3	3.7	37.6
B4-35.5	<0.5	<10	<10	<5.0	8*	<0.25	63.3+	135+	4.4+	39.5++
Method Blank	<0.5	<10	<10	<5	5*	<0.25	<0.50	<2.0	<2.0	<1.0

All results shown in parts per million (PPM).

TPH-G = Total petroleum hydrocarbons as gasoline using EPA Method 8015 (modified).

TPH-D = Total petroleum hydrocarbons as diesel using EPA Method 8015 (modified).

TPH-MO = Total petroleum hydrocarbons as motor oil using EPA Method 8015 (modified).

TOG = Total oil and grease using EPA Method 418.1.

VOCs = Volatile organic compounds using EPA Method 8240.

Metals Cd (cadmium), Cr (chromium), Ni (nickel), Pb (lead), and zinc (Zn) using EPA Method 8010.

NA = Not analyzed

* = The laboratory reported values for methylene chloride and acetone that are near the method blank contamination levels are laboratory contaminants. Analyte other than methylene chloride or acetone were not detected in these samples.

Title 26 Metals (Hazardous Waste Levels-TTLC)

Cd: 100 ppm

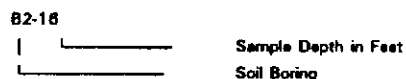
Cr: 2,500 ppm

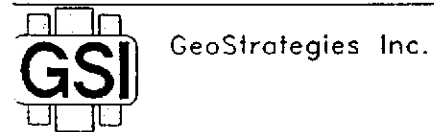
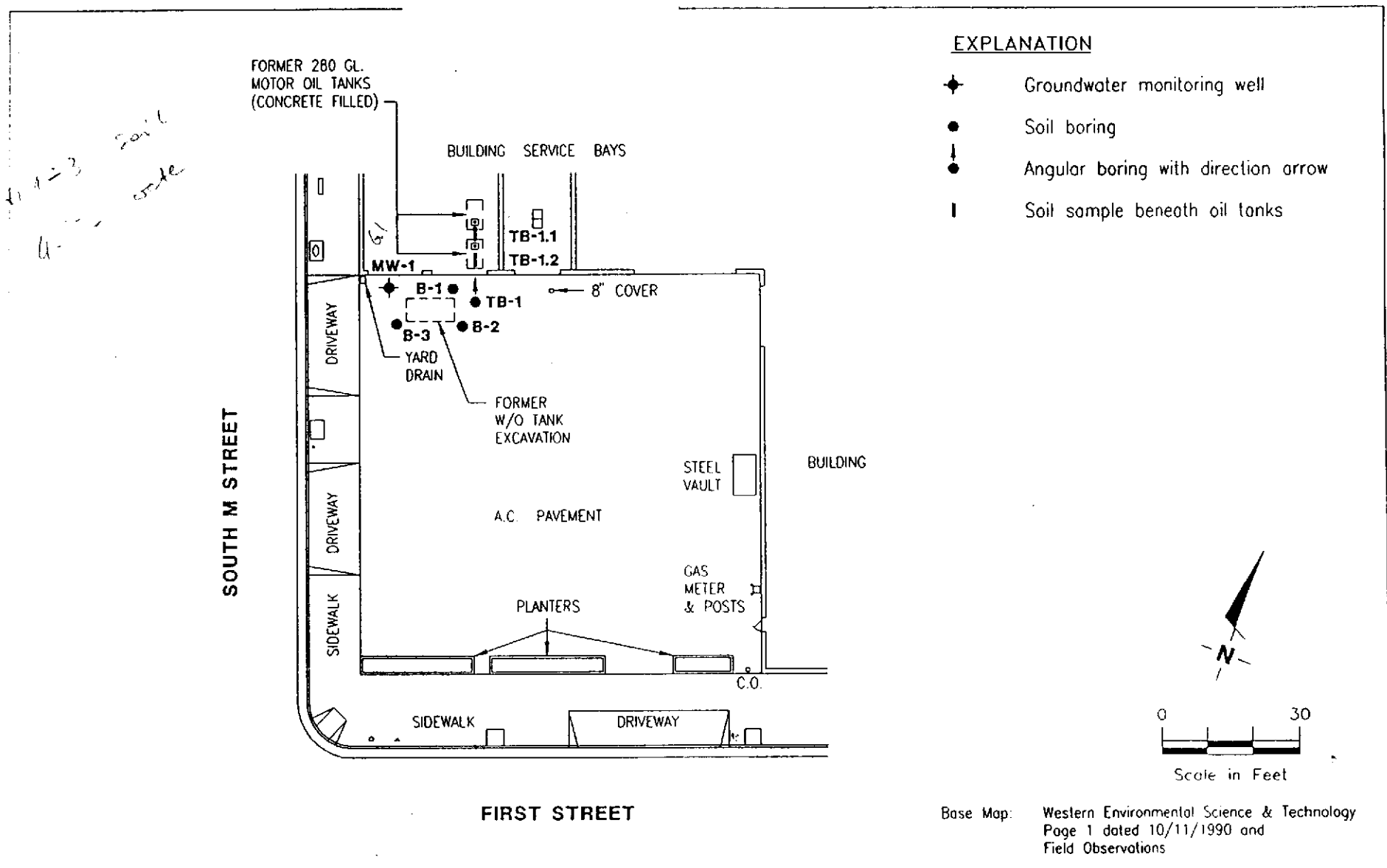
Ni: 2,000 ppm

Pb: 1,000 ppm

Zn: 5,000 ppm

Sample Identification:

B2-18




SITE PLAN
Groth Brothers Oldsmobile-GMC
59 South L Street
Livermore, California

FIGURE
2

JOB NUMBER
313601-2

REVIEWED BY

DATE
5/94

REVISED DATE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

StID 2935

April 6, 1994

Mr. Dick Groth
59 South L Street
Livermore, CA 94550

**Subject: Workplan Approval for Groth Brothers, 59 South L Street,
Livermore, CA 94550**

Dear Mr. Groth:

I have completed review of GeoStrategies' March 1994 Work Plan for a Subsurface Investigation Relating to Waste Oil Hydrocarbons for the above referenced site. The proposal to advance four borings around the former waste oil tank and converting one of the borings into a monitoring well to determine the extent of hydrocarbon contamination in soil and groundwater is acceptable. Field activities should commence **within 45 days of the date of this letter**. Please notify this office at least 72 hours prior to the start of field work.

When two underground storage tanks were closed in place beneath the service bays, soil samples were collected from beneath the southern tank only. Due to the existing building structure, the advancement of another angle boring beneath the northern tank would not be feasible and will not be required at this time.

If you have any questions, I can be reached at (510) 271-4530.

Sincerely,

eva chu
Hazardous Materials Specialist

cc: Robert Campbell, GSI, 6747 Sierra Ct., Suite G, Dublin
94568
files

groth4

Groth Bros.

CHEVROLET / OLDSMOBILE / GEO

Ju
6/24

June 23, 1993

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
80 Swan Way, Rm. 200
Oakland, CA. 94621

Dear Ms. Chu;

Per our telephone conversation on this date, this letter is to follow-up my request for an extension on the Preliminary Site Assessment or PSA that you are requisitioning us to do on the leased land located at 59 South 'L' St., in Livermore.

I do not feel that 260 parts per million is a high level of contamination. Our entire lot is paved, and all the buildings are cement, and we have absolutely no leakage of any sort. There is a testing well in the BP Service Station directly across the street from us if the water needs to be monitored.

We are relatively a small auto dealership but we have 45 employees who are dependant on us for their employment. With the extensive Federal, State, County and City taxes that we already pay plus all the necessary health benefits to our people, I find I cannot take on another financial burden at this time.

We have tried to abide by all rules and regulations governing the hazardous waste removing five (5) underground storage tanks (UST) in October, 1990, and taking care of our daily waste in a safe manner.

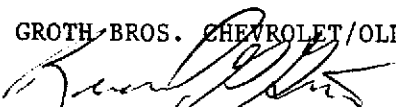
The additional work you want done on our leased property would create a major financial burden and I cannot reasonably justify any type of expenditures at this time.

We are asking for a continuance because as you are well aware of how "good" the automotive market has been to us in the past few years, we must put our employees and their families first.

Thank you in advance for your consideration in this matter.

Very truly yours,

GROTH BROS. CHEVROLET/OLDSMOBILE/GEO



RICHARD G. GROTH

PRESIDENT



RGG:ig

59 SOUTH L STREET • P.O. BOX 232 • LIVERMORE, CALIFORNIA 94550
SALES & BODY SHOP (510) 447-3190
SERVICE (510) 447-5161 PARTS (510) 443-7500 FAX 449-9243



ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH

State Water Resources Control Board

Division of Clean Water Programs

UST Local Oversight Program

80 Swan Way, Rm 200

Oakland, CA 94621

(510) 271-4530

StID 2935

June 15, 1993

Mr. Dick Groth
Groth Brothers
59 South L Street
Livermore, CA 94550

Subject: PSA for Groth Brothers, 59 South L St., Livermore 94550

Dear Mr. Groth:

This office has completed review of the case file for the above referenced site. When five (5) underground storage tanks (UST) were removed in October 1990, elevated levels of petroleum products (870 parts per million total petroleum hydrocarbons, ppm TPH, as motor oil, and 1,100 ppm total oil and grease), was detected from soil samples taken from beneath the waste oil tank.

In March 1991 two (2) USTs beneath the service building was closed in place. An angle boring was advanced beneath the USTs, where soil samples collected exhibited up to 260 ppm TPH as motor oil.

Elevated levels of contaminants resulting from the release due to the USTs at this site has required additional investigative actions, as requested in a letter dated June 5, 1991, from Mr. Gil Wistar of this office.

To date we are not in receipt of a workplan for the determination of the extent of contamination at this site. At this time, you are required to initiate this site assessment. Such an investigation shall be in the form of a **Preliminary Site Assessment**, or PSA. The information gathered by the PSA will be used to determine an appropriate course of action to remediate the site, if deemed necessary. The PSA must be conducted in accordance with the RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, and Article 11 of Title 23, California Code of Regulations. The major elements of such an investigation are summarized in the attached Appendix A.

The PSA proposal is due **within 45 days** of the date of this letter. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site. Subsequent reports are to be submitted quarterly until this site qualifies for RWQCB "sign off." All reports and proposals must be submitted under seal of a California Registered Geologist, Certified Engineering Geologist, or Registered Civil Engineer.

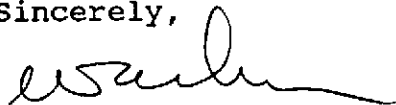
Dick Groth
re: PSA for 59 South L St., Livermore
June 15, 1993

Page 2

Please be advised that this is a formal request for technical reports pursuant to Title 23, CCR, Section 2722(c). Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB. Copies of all proposals and reports must also be sent to Mr. Sumadhu Arigala of the RWQCB.

Should you have any questions about the content of this letter, please contact me at (510) 271-4530.

Sincerely,



Eva Chu
Hazardous Materials Specialist

enclosure

cc: Sumadhu Arigala, RWQCB
Gil Jensen, Alameda County District Attorney's Office
Danielle Stefani, Livermore Fire Department
files

groth

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



March 11, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Dick Groth
Groth Brothers Oldsmobile
59 South L St.
Livermore, CA 94550

**RE: Site investigation and remediation requirements following
underground tank removals from site**

Dear Mr. Groth:

In October 1990, Scott Co. removed five underground storage tanks from the above location. According to Regional Water Quality Control Board (RWQCB) rules, sample results from beneath four of the five tanks indicate no further work need be done at this time at these four tanks. This includes the three tanks from Railroad Ave., and the gasoline tank adjacent to the showroom floor. However, in the case of the former waste oil tank, analytical results indicated hydrocarbon levels well above regulatory thresholds for oil & grease and motor oil. These thresholds establish contaminant levels above which the RWQCB requires a site-specific preliminary contaminant assessment. Therefore, Groth Brothers Oldsmobile must now initiate further investigative actions in the vicinity of the former waste oil tank; this will initially require a work plan to be submitted, according to the points raised in this letter and its attachment.

This office will be the lead agency overseeing environmental investigation and cleanup activities at the site. The RWQCB is currently unable to manage the large number of fuel leak cases within Alameda County, and has therefore delegated this authority to our office. However, you must keep the Water Board apprised of all actions taken to characterize and remediate contamination at this site, because the Board retains the ultimate responsibility for ensuring protection of waters of the state.

As mentioned above, Groth Brothers Oldsmobile must conduct a preliminary assessment to determine the extent of soil and groundwater contamination that resulted from use of the waste oil tank. The information gathered by this investigation will be used to assess the need for additional actions at the site. The preliminary assessment should be designed to provide all of the information in the format shown in the attachment at the end of this letter, which is based on RWQCB guidelines. Your firm should be prepared to install one monitoring well, if you can verify the direction of groundwater flow in the immediate vicinity of the contaminated pit, and three wells if you cannot.

Mr. Dick Groth
March 11, 1991
Page 2 of 2

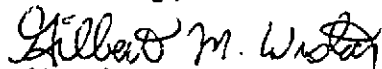
Until cleanup is complete, you will need to submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports must include information pertaining to further investigative results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material.

Soils contaminated at hazardous waste concentrations (defined specifically as above 1,000 ppm hydrocarbons) should be transported by a licensed hazardous waste hauler and disposed of or treated at a facility approved by the California Department of Health Services. Soils contaminated below the hazardous waste threshold may be managed as nonhazardous, but are still subject to the RWQCB's waste discharge requirements. Copies of manifests for such disposal must be sent to this office. Following the tanks' removal and overexcavation last October, contaminated soil was transported to the Railroad Ave. lot for storage. Please supply this office with detailed information on how this soil, which contains dichlorobenzenes as well as petroleum hydrocarbons, will be treated or disposed of.

Your work plan is to be submitted to this office no later than April 19, 1991. Copies of the proposal should also be sent to the RWQCB (attention: Lester Feldman). Because we are overseeing this site under the designated authority of the Water Board, this letter constitutes a formal request for technical reports, per Sec. 13267(b) of the California Water Code. Failure to respond in a timely manner could result in civil liabilities under the Water Code of up to \$1,000 per day. Other violations of California law may also be cited.

If you have any questions about this letter or about remediation requirements established by the RWQCB, please contact the undersigned at 271-4320.

Sincerely,

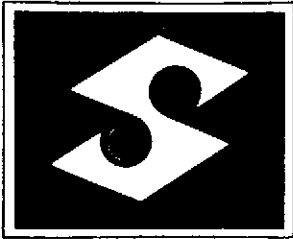


Gil Wistar
Hazardous Materials Specialist

enclosure

cc: Howard Hatayama, DOHS
Lester Feldman, San Francisco Bay RWQCB
Gil Jensen, Alameda County District Attorney's Office
Rafat Shahid, Asst. Agency Director, Environmental Health
files

AM



SCOTT CO.

MECHANICAL CONTRACTORS
1919 Market Street
P.O. Box 12954
Oakland, California 94604
(415) 834-2333

Contractors License No. 184480

February 20, 1991

Alameda County Health Department
80 Swan Way, Suite 200
Oakland, California 94621

Attention: Gil Wistar

Gentlemen:

Please find enclosed paperwork pertaining to the tank removals at 59 South 'L' Street, Livermore.

All manifests, permits, analyses and diagrams are included.

The tanks were removed on October 10, 1990. All tanks appeared to be intact. Samples were taken under the supervision of Alameda County Health Department and Livermore Fire Department. Western Environmental Science and Technology obtained the samples and performed subsequent analyses.

All results were under the 1000 p.p.m. limit except the waste oil tank. This tank had a noticeable stain in and around the fill area. This was caused by continual use and the lack of any type of overspill containment.

The site was over excavated as per conversations with Gil Wistar. The samples were taken by West Labs and analyses done for Halogenated Volatile Organics, which came in as non-detectable. The gasoline site was also over excavated and re-sampled at Gil Wistar's request. It also came back as non-detectable.

Soils were moved to the Railroad Avenue site as per Gil Wistar. These stockpiles had visqueen placed underneath and were covered.

The holds were backfilled and asphalted to match existing conditions as per conversations with Gil Wistar.

91 FEB 22 PM 1:20

Alameda County Health Department
February 20, 1991
Page 2

The two remaining oil tanks have been rinsed and a date will be set for drilling and sampling below these tanks as a requirement for abandonment.

Should you have any questions regarding this removal, I can be contacted at 834-2333, extension 3379.

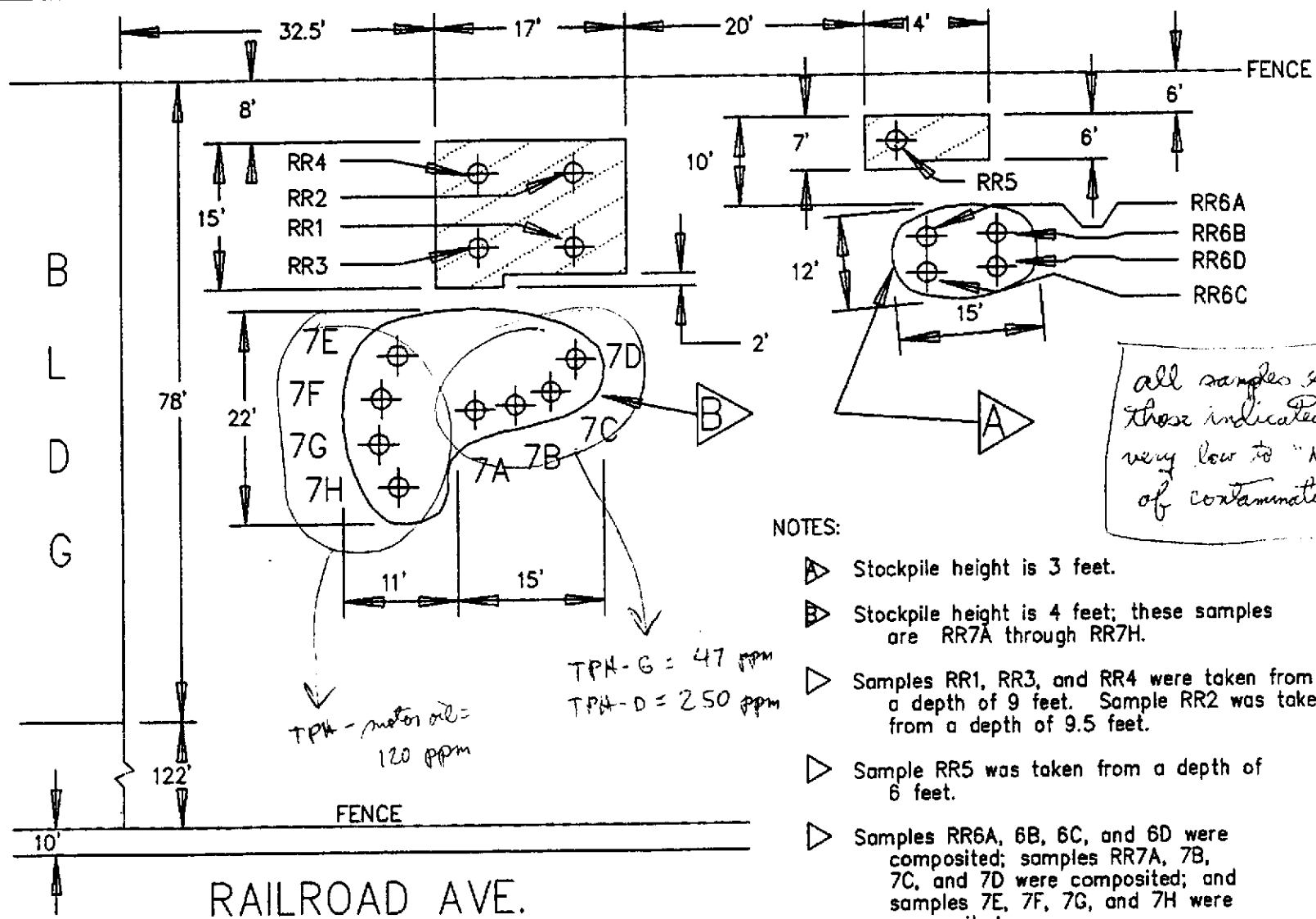
Very truly yours,

SCOTT CO. OF CALIFORNIA


Jay Groh
Environmental Estimator

JG:jj

Enclosure



all samples except those indicated ~~are~~ have very low to "ND" levels of contamination

NOTES:

- ▷ Stockpile height is 3 feet.
- ▷ Stockpile height is 4 feet; these samples are RR7A through RR7H.
- ▷ Samples RR1, RR3, and RR4 were taken from a depth of 9 feet. Sample RR2 was taken from a depth of 9.5 feet.
- ▷ Sample RR5 was taken from a depth of 6 feet.
- ▷ Samples RR6A, 6B, 6C, and 6D were composited; samples RR7A, 7B, 7C, and 7D were composited; and samples 7E, 7F, 7G, and 7H were composited.

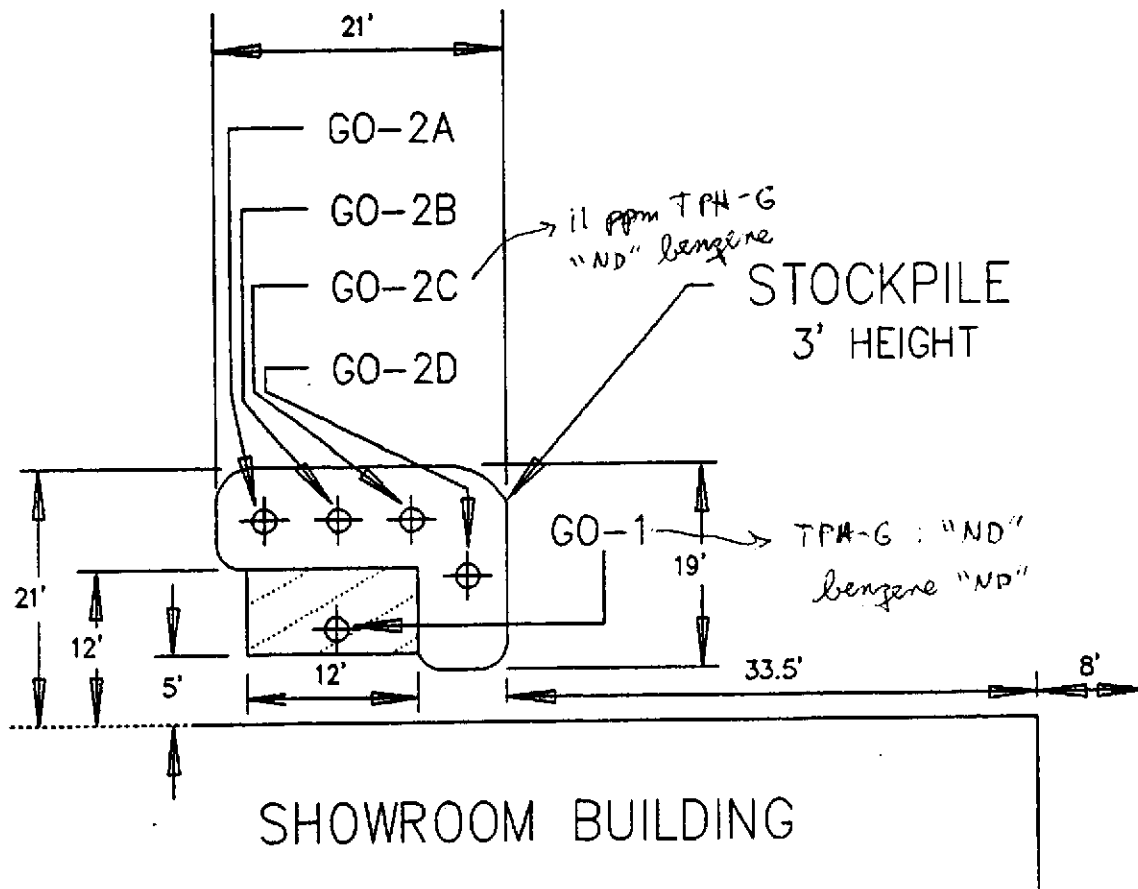
TPH - G = 47 ppm
 TPH - D = 250 ppm

TPH - motor oil = 120 ppm

GROTH BROS. OLDS (SCOTT)
 RAILROAD AVE. SITE
 LIVERMORE, CALIFORNIA

SLOG#: 1877
 DATE: 10/11/1990
 PAGE 3

WEST Western Environmental
 Science & Technology
 1046 Olive Drive #3, Davis, CA 95616
 Phone: (916) 753-9500
 Drawn by: TGT



NOTES:

- ▷ Sample GO-1 was taken at a depth of 7.5 feet.
- ▷ Sample GO-2 is a stockpile composite consisting of parts A, B, C, and D.

GROTH BROS. OLDS. (SCOTT)
 59 SOUTH L STREET
 LIVERMORE, CALIFORNIA

SLOG#: 1877
 DATE: 10/11/1990
 PAGE 2

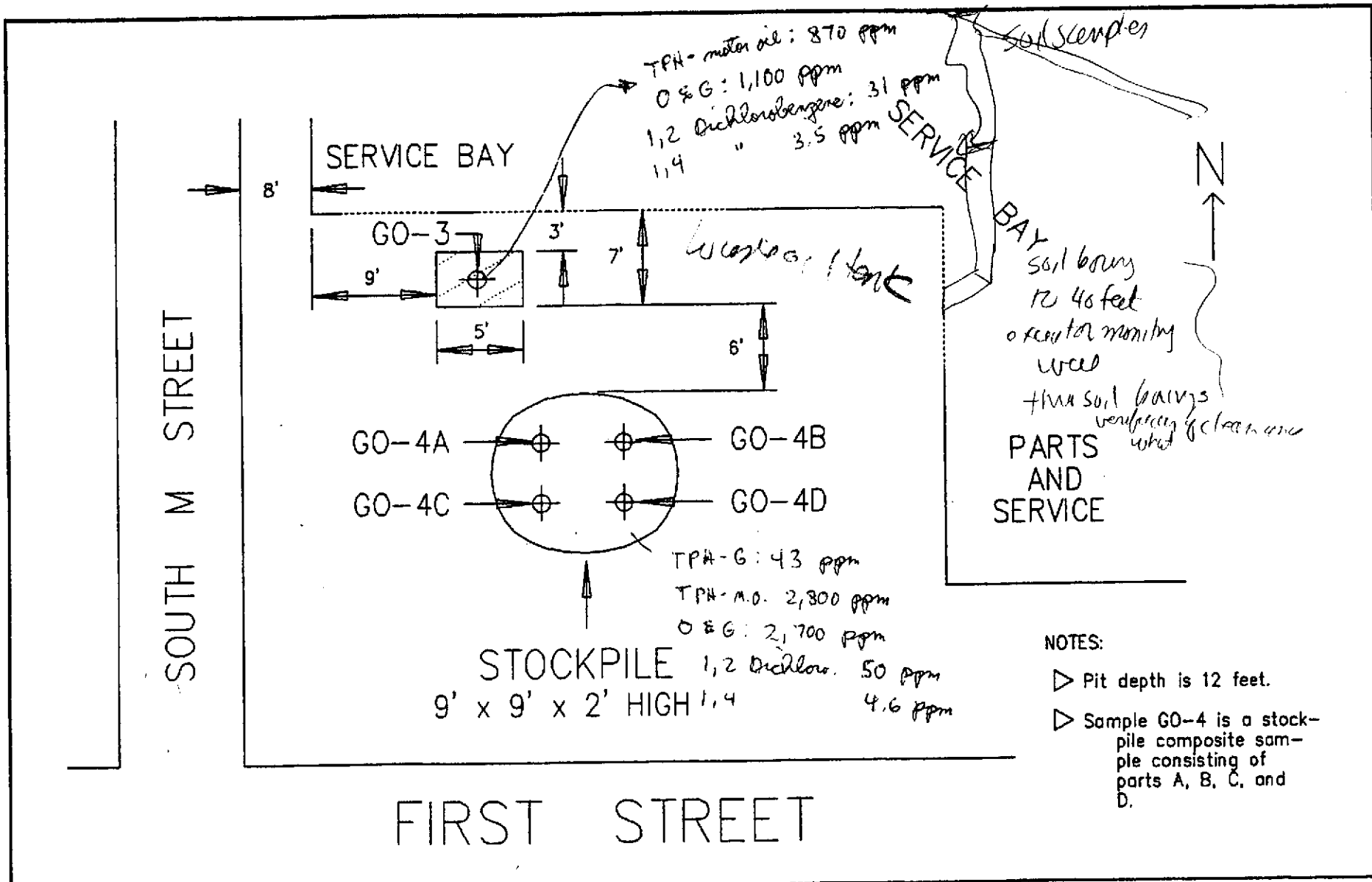


Western Environmental
 Science & Technology

1046 Olive Drive #3, Davis, CA 95616

Phone: (916) 753-9500

Drawn by: TGT



GROTH BROS. OLDS. (SCOTT)
 59 SOUTH L STREET
 LIVERMORE, CALIFORNIA

SLOG#: 1877
 DATE: 10/11/1990
 PAGE 1



Western Environmental
 Science & Technology

1046 Olive Drive #3, Davis, CA 95616

Phone: (916) 753-9500

Drawn by: TGT



October 15, 1990
Sample Log 1877

Jay Groh
Scott Company
1919 Market Street
Oakland, CA 94607

018 24

Subject: Analytical Results for 12 Soil Sample(s)
Identified as: Project # 106457-58559-72-7001 (Groth Bros.)
Received: October 11, 1990

Dear Mr. Groh:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on October 15, 1990 and describes procedures used to analyze the samples.

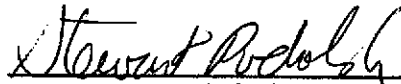
Sample(s) were received in brass sleeves that were sealed with aluminum foil and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

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

- "BTEX" (EPA Method 8020/Purge-and-Trap)
- "TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
- "TPH as Diesel, Motor Oil, Jet/Kerosene" (Mod. 8015/Extraction)
- "Halogenated Solvents" (EPA Method 8010)
- "Oil and Grease" (ASTM Method 5520 C,E,F)

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

Approved by:


Stewart Podolsky
Senior Chemist



October 15, 1990
Sample Log 1877

Table 1: 'BTEX' Results for 10 Soil Sample(s) Identified as
Project # 106457-58559-72-7001 (Groth Bros.)
Received October 11, 1990

--all concentrations are units of mg/kg--

Sample	Benz.	Tol.	Eth.Benz.	Xyl.
RR-1	<.005	<.005	<.005	.010
RR-2	<.005	<.005	<.005	.023
RR-3	<.005	<.005	<.005	<.005
RR-4	<.005	<.005	<.005	<.005
RR-5	<.005	<.005	.0054	.053
G0-1	<.005	.0084	<.005	.044
Composite 1 RR-6A RR-6B RR-6C RR-6D	<.005	<.005	<.005	<.005
Composite 2 RR-7A RR-7B RR-7C RR-7D	<.005	.12	.063	.58
Composite 3 RR-7E RR-7F RR-7G RR-7H	<.005	<.005	<.005	<.005
(Reporting Limit	.005	.005	.005	.005)



October 15, 1990
Sample Log 1877

B T E X Continued

--all concentrations are units of mg/kg--

Sample	Benz.	Tol.	Eth.Benz.	Xyl.
Composite 4	<.005	.081	.060	1.1
GO-2A				
GO-2B				
GO-2C				
GO-2D				
(Reporting Limit	.005	.005	.005	.005)



October 15, 1990
 Sample Log 1877

Table 2: TPH Results for 10 Soil Sample(s) Identified as
 Project # 106457-58559-72-7001 (Groth Bros.)
 Received October 11, 1990

--all concentrations are units of mg/kg--

Sample	TPH as Gasoline	TPH (Semi-Volatile)
RR-1	<.5	
RR-2	2.5	
RR-3	<.5	Diesel : <10 Motor Oil : <10
RR-4	<.5	Diesel : <10 Motor Oil : <10
RR-5	<.5	
GO-1	<.5	
Composite 1	<.5	
RR-6A		
RR-6B		
RR-6C		
RR-6D		
Composite 2	47	Diesel : 250 Motor Oil : <30**
RR-7A		
RR-7B		
RR-7C		
RR-7D		
Composite 3	<.5	Diesel : <10 Motor Oil : 120
RR-7E		
RR-7F		
RR-7G		
RR-7H		
(Reporting Limit	.5	10)



October 15, 1990
Sample Log 1877

TPH as Gasoline & Diesel Continued

--all concentrations are units of mg/kg--

Sample	TPH as Gasoline	TPH (Semi-Volatile)
Composite 4	11	
GO-2A		
GO-2B		
GO-2C		
GO-2D		
(Reporting Limit	.5	10)

** Increased Reporting Limit due to high concentration of Diesel in sample.



October 15, 1990
Sample Log 1877

Sample: G0-3

From : Project # 106457-58559-72-7001 (Groth Bros.)
Received : October 11, 1990
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Benzene (.005)	<.005
Toluene (.005)	<.005
Ethylbenzene (.005)	<.005
Total Xylenes (.005)	<.005
TPH as Gasoline (.5)	<.5
Extractable TPH (10)	Diesel : <100* Motor Oil : 870
Oil and Grease (50)	1100

* Increased Reporting Limit due to high concentration of Motor Oil in sample.



October 15, 1990
Sample Log 1877

Sample: G0-3

From : Project # 106457-58559-72-7001 (Groth Bros.)
Received October 11, 1990
Matrix : Soil

--all concentrations are units of mg/kg--

8010 - Halogenated Volatile Organics

Parameter /	(Reporting Limit)	Measured Value
Chloromethane	(0.01)	<0.01
Chloroethane	(0.01)	<0.01
Vinyl Chloride	(0.01)	<0.01
Bromomethane	(0.01)	<0.01
Trichlorofluoromethane	(.001)	<.001
1,1-Dichloroethene	(.001)	<.001
Dichloromethane	(0.02)	<0.02
t-1,2-Dichloroethene	(.001)	<.001
1,1-Dichloroethane	(.001)	<.001
Chloroform	(.002)	<.002
1,1,1-Trichloroethane	(.001)	<.001
1,2-Dichloroethane	(.001)	<.001
Carbon Tetrachloride	(.001)	<.001
1,2-Dichloropropane	(.001)	<.001
Trichloroethene	(.001)	<.001
Bromodichloromethane	(.001)	<.001
2-Chloroethylvinyl Ether	(0.01)	<0.01
c-1,3-Dichloropropene	(.001)	<.001
t-1,3-Dichloropropene	(.001)	<.001
1,1,2-Trichloroethane	(.001)	<.001
Tetrachloroethene	(.001)	<.001
Dibromochloromethane	(.001)	<.001
Chlorobenzene	(.001)	<.001
Bromoform	(.001)	<.001
1,1,2,2-Tetrachloroethane	(.001)	<.001
1,4-Dichlorobenzene	(.001)	3.5
1,3-Dichlorobenzene	(0.50)	<0.50
1,2-Dichlorobenzene	(.001)	31



October 15, 1990
Sample Log 1877

Sample: Composite 5
G0-4A
G0-4B
G0-4C
G0-4D

From : Project # 106457-58559-72-7001 (Groth Bros.)
Received : October 11, 1990
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Benzene (.005)	<.005
Toluene (.005)	.010
Ethylbenzene (.005)	.0073
Total Xylenes (.005)	.088
TPH as Gasoline (.5)	43
Extractable TPH (10)	Diesel : <200* Motor Oil : 2800
Oil and Grease (50)	2700



October 15, 1990
Sample Log 1877

Sample: Composite 5
G0-4A
G0-4B
G0-4C
G0-4D

From : Project # 106457-58559-72-7001 (Groth Bros.)
Received October 11, 1990
Matrix : Soil

--all concentrations are units of mg/kg--

8010 - Halogenated Volatile Organics

Parameter /	(Reporting Limit)	Measured Value
Chloromethane	(0.01)	<0.01
Chloroethane	(0.01)	<0.01
Vinyl Chloride	(0.01)	<0.01
Bromomethane	(0.01)	<0.01
Trichlorofluoromethane	(.001)	<.001
1,1-Dichloroethene	(.001)	<.001
Dichloromethane	(0.02)	<0.02
t-1,2-Dichloroethene	(.001)	<.001
1,1-Dichloroethane	(.001)	<.001
Chloroform	(.002)	<.002
1,1,1-Trichloroethane	(.001)	<.001
1,2-Dichloroethane	(.001)	<.001
Carbon Tetrachloride	(.001)	<.001
1,2-Dichloropropane	(.001)	<.001
Trichloroethene	(.001)	<.001
Bromodichloromethane	(.001)	<.001
2-Chloroethylvinyl Ether	(0.01)	<0.01
c-1,3-Dichloropropene	(.001)	<.001
t-1,3-Dichloropropene	(.001)	<.001
1,1,2-Trichloroethane	(.001)	<.001
Tetrachloroethene	(.001)	<.001
Dibromochloromethane	(.001)	<.001
Chlorobenzene	(.001)	<.001
Bromoform	(.001)	<.001
1,1,2,2-Tetrachloroethane	(.001)	<.001
1,4-Dichlorobenzene	(.001)	4.6
1,3-Dichlorobenzene	(0.50)	<0.50
1,2-Dichlorobenzene	(.001)	50



1046 Olive Drive, Suite 3
Davis, CA 95616

916-753-9500
FAX #: 916-753-6091

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: **Jay Groh** Phone #: **(415) 834-2333**

Address: **Scott Co., Oakland** FAX #: **(415) 834-9133**

Project Number: **106457-58559-72-7001** Project Name: **Groth Bros. - Olds**

Project Location: **Railroad Ave. Livermore, CA** Sampler Signature: **Troy J. Furjman**

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix					Method Preserved					Sampling		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	ICE	NONE	OTHER	DATE	TIME																									
RR-1		1	25		X						X			10-11-90	1400	X																								
RR-2		1	"		X						X			"	1409	X																								
RR-3		1	"		X						X			"	1430	X																								
RR-4		1	"		X						X			"	1445	X																								
RR-5		1	"		X						X			"	1500	X																								
RR-6 ABCD		4	25		X						X			"	1630	X						COMPOSITE																		
RR-7 ABCD		4	"		X						X			"	1645	X						COMPOSITE																		
RR-7 EFGH		4	"		X						X			"	1645	X						COMPOSITE																		

Relinquished by: **Troy J. Furjman** Date: **10-11-90** Time: **19:00** Received by: **D. Podolsky** Remarks: **48 hr TAT**

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by Laboratory: _____

8.0 HR SAMPLING

PLO80 Page 1 of 2



1046 Olive Drive, Suite 3
Davis, CA 95616

916-753-9500
FAX #: 916-753-6091

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: *Jay Groh* Phone #: *(415) 834-2333*

Address: *Scott Co., Oakland* FAX #: *(415) 834-9133*

Project Number: *106457-58559-72-7001* Project Name: *Groth Bros - Olds*

Project Location: *59 South L Street Livermore, CA* Sampler Signature: *Troy J. Jurpen*

ANALYSIS REQUEST

OTHER

SPECIAL HANDLING

Sample ID	Lab # (Lab use only)	# CONTAINERS Volume/Amount	Matrix					Method Preserved					Sampling		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS							
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	ICE	NONE	OTHER	DATE	TIME																														
G0-1		1 2" 5"		X												X																												
G0-2 ABCD		4 2" 5"		X												X																												
G0-3		1 2" 5"		X												X	X	X																										
G0-4 ABCD		4 2" 5"		X												X	X	X																										

Relinquished by: *Troy J. Jurpen* Date Time: *10-11-90 19:00* Received by: *D. Podolsky*

Relinquished by: _____ Date Time: _____ Received by: _____

Relinquished by: _____ Date Time: _____ Received by Laboratory: _____

Remarks: *CONTACT JAY GROH CONCERNING FULL 8020 ANALYSIS ON G0-3 & G0-4*

*PL080
Page 2 of 2*



October 18, 1990
Sample Log 1895

Jay Groh
Scott Company
1919 Market Street
Oakland, CA 94607

Subject: Analytical Results for 1 Soil Sample(s)
Identified as: Groth Brothers
Received: 10/15/90

Dear Mr. Groh:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on October 18, 1990 and describes procedures used to analyze the samples.

The sample(s) were received in:

Polyethylene Bottle

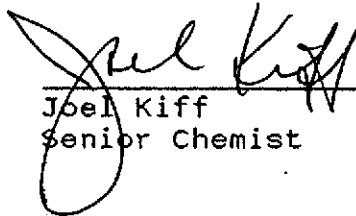
Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

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

"BTEX" (EPA Method 8020/Purge-and-Trap)
"Polychlorinated Biphenyls (PCBs)" (EPA Method 8080/Extraction)
"Halogenated Solvents" (EPA Method 8010)

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

Approved by:



Joel Kiff
Senior Chemist



October 18, 1990
Sample Log 1895

Sample: 5858

From : Groth Brothers
Received : 10/15/90
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Benzene (25)	<25
Toluene (25)	<25
Ethylbenzene (25)	<25
Total Xylenes (25)	<25
PCB 1016	<10
PCB 1221	<10
PCB 1232	<10
PCB 1242	<10
PCB 1248	<10
PCB 1254	<10
PCB 1260	<10



October 18, 1990
Sample Log 1895

Sample: 5858 *sludge sample*

From : Groth Brothers
Received 10/15/90
Matrix : Soil

--all concentrations are units of mg/kg--

8010 - Halogenated Volatile Organics

Parameter /	(Reporting Limit)	Measured Value
Chloromethane	(500)	< 500
Chloroethane	(500)	< 500
Vinyl Chloride	(500)	< 500
Bromomethane	(500)	< 500
Trichlorofluoromethane	(50)	< 50
1,1-Dichloroethene	(50)	< 50
Dichloromethane	(500)	< 500
t-1,2-Dichloroethene	(50)	< 50
1,1-Dichloroethane	(50)	< 50
Chloroform	(50)	< 50
1,1,1-Trichloroethane	(50)	< 50
1,2-Dichloroethane	(50)	< 50
Carbon Tetrachloride	(50)	< 50
1,2-Dichloropropane	(50)	< 50
Trichloroethene	(50)	< 50
Bromodichloromethane	(50)	< 50
2-Chloroethylvinyl Ether	(500)	< 500
c-1,3-Dichloropropene	(50)	< 50
t-1,3-Dichloropropene	(50)	< 50
1,1,2-Trichloroethane	(50)	< 50
Tetrachloroethene	(50)	< 50
Dibromochloromethane	(50)	< 50
Chlorobenzene	(50)	< 50
Bromoform	(50)	< 50
1,1,2,2-Tetrachloroethane	(50)	< 50
1,4-Dichlorobenzene	(50)	830
1,3-Dichlorobenzene	(50)	< 50
1,2-Dichlorobenzene	(50)	11000

waste oil
pcb
hydro carbon

H & H SHIP SERVICE LABORATORY
(A Division of H & H Ship Service Co., Inc.)
220 China Basin Street
San Francisco, California 94107
Tel. (415)543-0906 • FAX (415)543-8265

Date 10-15-90
Page 1 of 1

LABORATORY CLIENT*: <u>Groth Brothers</u>		CLIENT PROJECT NAME/NUMBER: <u>Scott Co., 1919 Market St</u>	
ADDRESS:		PROJECT CONTACT: <u>Oakland, CA</u>	
CITY:	STATE:	ZIP CODE:	
TELEPHONE:	FAX:		
TURN AROUND TIME DESIRED			LAB ID NUMBER:
<input type="checkbox"/> SAME DAY (100%) <input type="checkbox"/> 24 HOURS (50%) <input type="checkbox"/> 48 HOURS (25%) <input type="checkbox"/> 10 DAYS			H&H JOB NUMBER:
Prior confirmation with H&H Laboratory is recommended for rush samples.			

SHIPMENT METHOD:	<input type="checkbox"/> DISPOSED OF <input type="checkbox"/> RETURNED TO CLIENT <input type="checkbox"/> STORED (30 DAYS MAX.) <input type="checkbox"/> OTHER _____
AFTER ANALYSES, SAMPLES ARE TO BE:	

SPECIAL INSTRUCTIONS: Sample relinquished to Scotts Co. (James Churchill) per instructions from Rohan via Patty Eastin.

SAMPLE ID	LOCATION DESCRIPTION	SAMPLING		SAMPLE TYPE				SOLID/SOIL	NO. OF CONTAINERS	TESTS REQUIRED
		DATE	TIME	WATER		PETROLEUM				
				Comp.	Grab	Comp.	Grab			
5858	1 sludge sample	10/12/90	10:15					✓	1	

Relinquished by (Signature): <u>Peter C. Gimbo</u>	Received by: <u>James Churchill</u>	Date: <u>10-15-90</u>	Time: <u>10:45</u>
Relinquished by (Signature): _____	Received by: _____	Date: _____	Time: _____
Relinquished by (Signature): <u>James Churchill</u>	Received for Laboratory by (Signature): <u>Mark G. Williamson</u>	Date: <u>10/15/90</u>	Time: <u>1200</u>

The report will be forwarded to this address.

PL088

10 2 40



October 26, 1990
Sample Log 1921

Jay Groh
Scott Company
1919 Market Street
Oakland, CA 94607

Subject: Analytical Results for 3 Soil Sample(s)
Identified as: Groth Brothers
Received: 10/25/90

Dear Mr. Groh:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on October 26, 1990 and describes procedures used to analyze the samples.

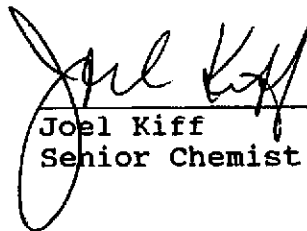
Sample(s) were received in brass sleeves that were sealed with aluminum foil and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

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

- "TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
- "Volatile Aromatics" (EPA Method 8020)

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

Approved by:



 Joel Kiff
 Senior Chemist



October 26, 1990
Sample Log 1921

Sample: 1

From : Groth Brothers
Received : 10/25/90
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Benzene (.005)	<.005
Toluene (.005)	<.005
Ethylbenzene (.005)	<.005
Total Xylenes (.005)	<.005
Chlorobenzene (.005)	<.005
1,2-Dichlorobenzene (.005)	<.005
1,3-Dichlorobenzene (.005)	<.005
1,4-Dichlorobenzene (.005)	<.005

page. 2



October 26, 1990
Sample Log 1921

Sample: 2

From : Groth Brothers
Received : 10/25/90
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Benzene (.005)	<.005
Toluene (.005)	<.005
Ethylbenzene (.005)	<.005
Total Xylenes (.005)	<.005
Chlorobenzene (.005)	<.005
1,2-Dichlorobenzene (.005)	<.005
1,3-Dichlorobenzene (.005)	<.005
1,4-Dichlorobenzene (.005)	<.005

page .3



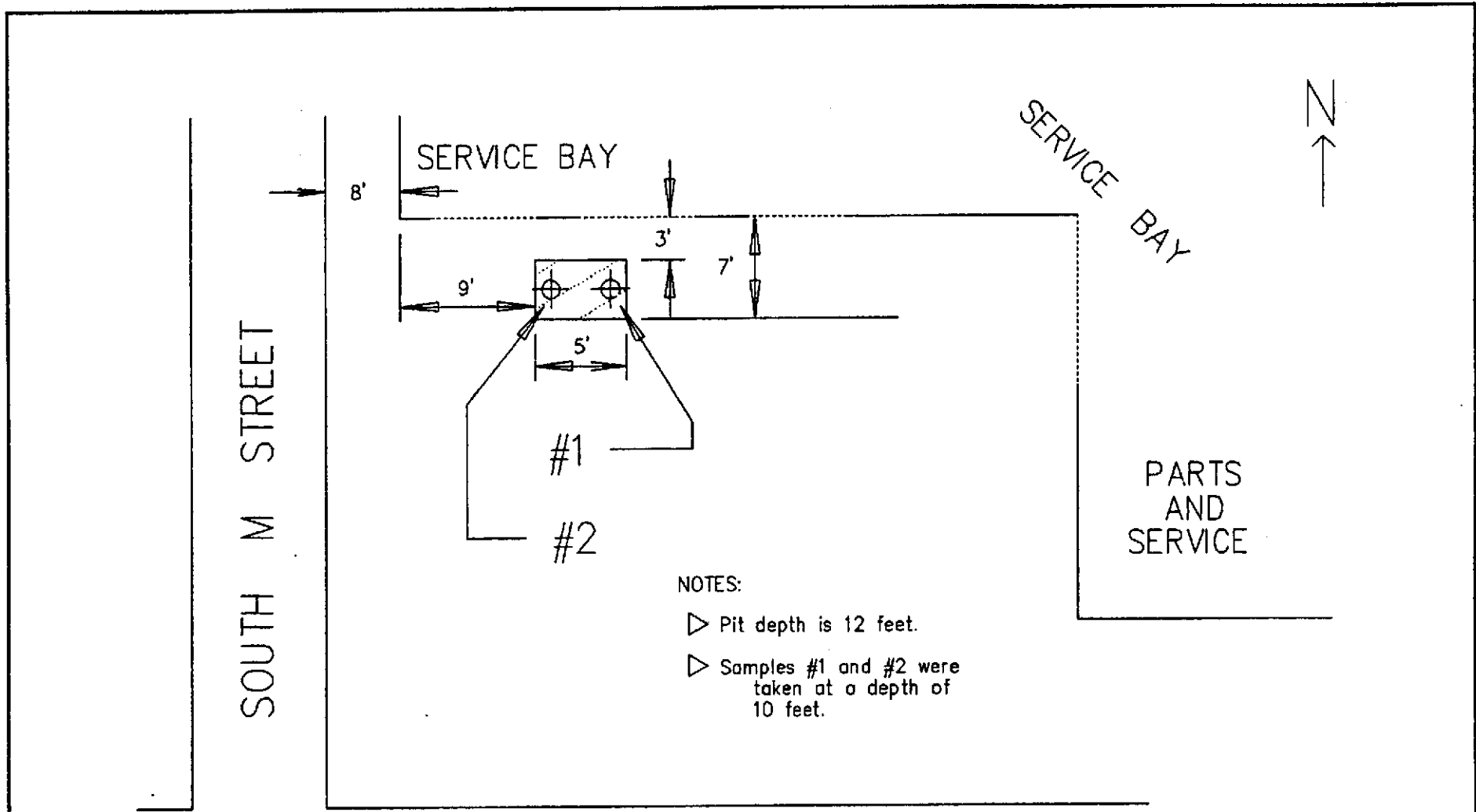
October 26, 1990
Sample Log 1921

Sample: 3

From : Groth Brothers
Received : 10/25/90
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Benzene (.005)	<.005
Toluene (.005)	<.005
Ethylbenzene (.005)	<.005
Total Xylenes (.005)	<.005
TPH as Gasoline (.5)	<.5



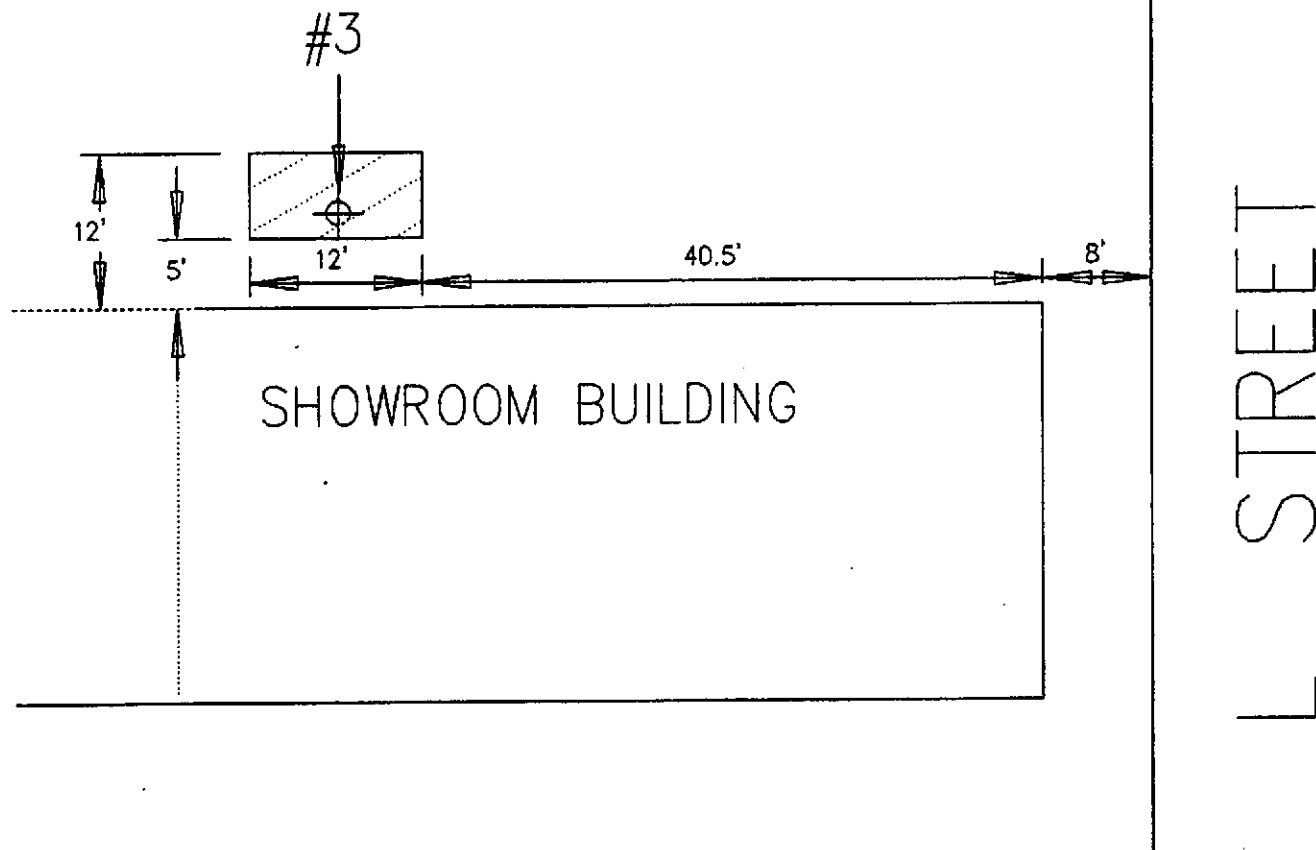
NOTES:

- ▷ Pit depth is 12 feet.
- ▷ Samples #1 and #2 were taken at a depth of 10 feet.

GROTH BROS. OLDS. (SCOTT)
 59 SOUTH L STREET
 LIVERMORE, CALIFORNIA

SLOG#: 1921
 DATE: 10/25/1990
 PAGE 1

WEST Western Environmental
 Science & Technology
 1046 Olive Drive #3, Davis, CA 95616
 Phone: (916) 753-9500
 Drawn by: TGT



NOTE:

▷ Sample #3 was taken at a depth of 10 feet.

GROTH BROS. OLDS. (SCOTT)
59 SOUTH L STREET
LIVERMORE, CALIFORNIA

SLOG#: 1921
DATE: 10/25/1990
PAGE 2



Western Environmental
Science & Technology

1046 Olive Drive #3, Davis, CA 95616.

Phone: (916) 753-9500

Drawn by: TGT



ENVIRONMENTAL SERVICES
(DIVISION OF M&H SHIP SERVICE CO., INC.)

*FAXED
10-8-90*

WASTE CHARACTERIZATION FORM

LAB: (415)543-0906

220 CHINA BASIN, SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835



I. WASTE GENERATOR

US EPA IDN: CAD-981400211
 Facility: GROTH BROTHERS
 Address: 59 L STREET
 City/State: LIVERMORE, CALIF. Zip: 94550
 Contact: DICK GROTH Telephone: (415) 443-7500

II. DESCRIPTION OF WASTE

1. General Description: TANK REMOVAL
 2. Process Generating this Waste: TANK DECOMMISSIONING
 3. Is this listed under P, R, P, or U? yes ___ no X 2) 1,500
 1) 1,000
 4. Quantity: 5 tons ___ yards ___ gallons 2) 550
 5. Frequency: weekly ___ monthly ___ annually ___ once X
 other ___
 6. Shipment Mode: bulk ___ drums ___ other BY FLATBED TRUCK

III. WASTE CLASSIFICATION & SHIPPING DESCRIPTION

1. California Waste Category Number: 512
 2. EPA Waste Code Number: N/A
 3. Proper DOT Shipping Name: NON RICRA HAZ. SOLID WASTE

IV. HAZARD CLASS

Toxic X Corrosive ___ Radioactive ___
 Reactive ___ Ignitable ___ Etiological ___

V. CHARACTERISTICS OF WASTE

1. Is this a: liquid ___ sludge ___ solid X
 Stratification: none X two ___ multi- ___ (layers)
 2. Viscosity (Liquids) Similar to: water N/A motor oil ___ honey ___
 3. Odor: none ___ mild X strong ___ describe: GASOLINE (3)
DIESEL (2)
 Specific Gravity (range): N/A-
 4. pH: < 3 ___ > 12 ___ Actual ___ Range N/A-
 5. Flash Point: < 70°F ___ > 140°F ___ Actual N/A
 Determined by: Closed Cup ___ Open Cup N/A

VI. CHEMICAL COMPOSITION

	RANGE		
	MIN.	MAX.	
1. <u>EMPTY UNDERGROUND</u>	-	-	%
<u>STORAGE TANKS</u>	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
Must be equal or greater than 100% - Total:	<u>100</u>		%

2. Indicate if this waste contains any of the following:

Cyanides	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
PCBs	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Phenolics	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Sulfides	no <input checked="" type="checkbox"/>	yes _____	_____ ppm

3. Indicate if this waste contains any of the following (total concentration of each metal must be given):

Arsenic	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Barium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Beryllium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Cadmium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Chromium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Chromium-Hex	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Cobalt	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Copper	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Lead	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Mercury	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Molybdenum	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Nickel	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Selenium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Silver	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Thallium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Vanadium	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Zinc	no <input checked="" type="checkbox"/>	yes _____	_____ ppm
Other			_____ ppm

VII. ADDITIONAL INFORMATION

Provide additional comments, analyses or wastestream information necessary for proper safe handling of this waste.

VIII. CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

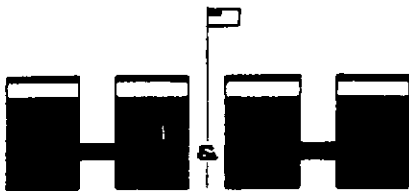
Michael Schweickert-Story
 (Signature)

OCTOBER 8, 1990
 (Date)

SCOTT CO. ENVIRONMENTAL DEPT. ASS'T.
 (Title)

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.3 OF THE HEALTH AND SAFETY CODE.		
REPORT DATE 10/1/90		CASE #				
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Jay Groh		PHONE 834-2333		SIGNATURE Jay Groh	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OTHER <u>CONTRACTOR</u>		COMPANY OR AGENCY NAME			
	ADDRESS					
RESPONSIBLE PARTY	NAME Groth Brothers <input type="checkbox"/> UNKNOWN		CONTACT PERSON Dick Broth		PHONE	
	ADDRESS 59 So L St Livermore					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Groth Brothers		OPERATOR		PHONE ()	
	ADDRESS 59 S L St Livermore					
	CROSS STREET Railroad		TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> OTHER		TYPE OF BUSINESS <input type="checkbox"/> FARM <input checked="" type="checkbox"/> OTHER <u>Car Dealer</u>	
IMPLEMENTING AGENCIES	LOCAL AGENCY Ala County Health		AGENCY NAME		CONTACT PERSON Gil Wistare	
	REGIONAL BOARD Bay Area Water Quality		CONTACT PERSON wk		PHONE 271-4320	
SUBSTANCES INVOLVED	(1) <u>Oil/Grease</u>		NAME		QUANTITY LOST (GALLONS) 20 gal <input type="checkbox"/> UNKNOWN	
	(2) <u>Gasoline</u>		NAME		QUANTITY LOST (GALLONS) 775 gal <input type="checkbox"/> UNKNOWN	
DISCOVERY/ABATEMENT	DATE DISCOVERED 10/1/90		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER			
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> OTHER <u>REMOVE TANK</u>			
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, DATE 10/1/90					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN		TANKS ONLY CAPACITY 500 GAL		MATERIAL <input type="checkbox"/> FIBERGLASS <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> OTHER	
	<input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		AGE UNKNOWN		CAUSE(S) <input checked="" type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER	
CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
	CURRENT STATUS CHECK ONE ONLY <input type="checkbox"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input checked="" type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES					
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)					
	<input type="checkbox"/> CAP SITE (CS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input checked="" type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (BT)		<input type="checkbox"/> CONTAINMENT BARRIER (CB) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS)			
COMMENTS	<input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> OTHER (OT)					
	COMMENTS					



ENVIRONMENTAL SERVICES
(DIVISION OF H&H SHIP SERVICE CO., INC.)

CERTIFICATE OF DISPOSAL

OCTOBER 30, 1990

220 CHINA BASIN, SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835



H & H Ship Service Company hereby certifies to SCOTT COMPANY

1. The storage tank(s), size(s) 2-1,500 GALS., 1-1,000 GALS. AND 2-550 GALS.

removed from the GROTH BROTHERS

59 SOUTH "L" STREET & RAILROAD

LIVERMORE, CALIFORNIA

were transported to H & H Ship Service Company, 220 China Basin St., San Francisco, California 94107.

2. The following tank(s), H & H Job Number 6165
have been steamed cleaned, cut with approximately 2' X 2' holes, rendered harmless and disposed of as scrap metal.
3. Disposal site: SCHNITZER STEEL, OAKLAND, CALIFORNIA.
4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.
5. Should you require further information, please call (415) 543-4835.

Very Truly Yours,


Cleveland Valrey
Operations Coordinator

Please print or type. Form designed for use on elite (12-pitch typewriter).

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

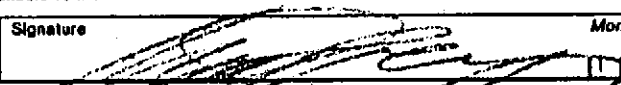
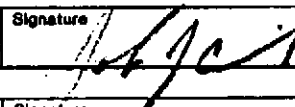
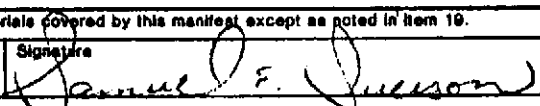
GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A D 9 8 1 4 0 0 2 1 1 0 0 0 0 1		Manifest Document No. 0 0 0 0 1	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GROTH BROTHERS 59 South "L" Street, Livermore, CA. 94550					A. State Manifest Document Number 90283216		
4. Generator's Phone (415) 443-7500					B. State Generator's ID		
5. Transporter 1 Company Name H & H Ship Service Company		6. US EPA ID Number C A D 0 0 4 7 7 1 1 6 8		C. State Transporter's ID 103579		D. Transporter's Phone (415) 543-4835	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107		10. US EPA ID Number C A D 0 0 4 7 7 1 1 6 8		G. State Facility's ID C A D 0 0 4 7 7 1 1 6 8		H. Facility's Phone (415) 543-4835	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit	15. Waste No.
a. RESIDUE DIESEL TANK NON-RCRA HAZARDOUS WASTE SOLID				No. Type 0 0 1 T P	0 1 5 0 0 0	P	State 512 EPA/Other
b. RESIDUE GASOLINE TANK NON-RCRA HAZARDOUS WASTE SOLID				No. Type 0 0 1 T P	0 1 5 0 0 0	P	State 512 EPA/Other
c. RESIDUE GASOLINE TANK NON-RCRA HAZARDOUS WASTE SOLID				No. Type 0 0 1 T P	0 1 0 1 0 1 0	P	State 512 EPA/Other
d. RESIDUE WASTE OIL AND GASOLINE TANKS NON-RCRA HAZARDOUS WASTE SOLID				No. Type 0 0 1 2 T P	0 1 0 5 1 0	P	State 512 EPA/Other
J. Additional Descriptions for Materials Listed Above PUMPED OUT 1,500, 1,000 and 550 gallon tanks last containing diesel, gasoline and waste oil. Tanks inerted with dry ice for transport. <i>DRUG PIPING 150 LIAI PT</i>				K. Handling Codes for Wastes Listed Above			
				a. 01	b. 01		
				c. 01	d. 01		
15. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR JOB # 6165				JOB SITE: GROTH BROTHERS South L, and Railroad Streets Livermore, California			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name RAY RODDA FOR DICK GROTH		Signature <i>[Signature]</i>		Month Day Year 1 0 1 0 9 0			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name DOMINCO WILLIAMS		Signature <i>[Signature]</i>		Month Day Year 1 0 1 0 9 0	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space The tank bottom residuals remaining in waste oil tank line 11d, drummed and sent to: American Environmental Management, 11855 White Rock Road, Rancho Cordova, CA 95670, (800) 826-9040. EPA #CAD980884183, under manifest #90283506.							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name CLEVELAND VALREY		Signature <i>[Signature]</i>		Month Day Year 1 0 1 6 9 0			

Do Not Write Below This Line

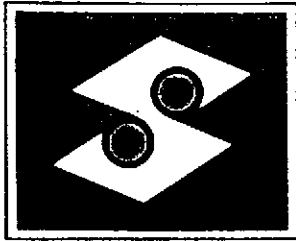
Please print or type. Form designed for use on site (12-pitch typewriter).

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 7 3 0 9 0 1 1 1 0 0 2 1 1		Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CROTH BROTHERS 54 SOUTH "G" STREET, LIVERMORE, CA. 94550					A. State Manifest Document Number 90283506		
4. Generator's Phone (15) 938-7500					B. State Generator's ID H A H 0 3 6 - 0 3 0 4 8 7		
5. Transporter 1 Company Name H A H HAUL SERVICE COMPANY			6. US EPA ID Number 7 3 0 9 0 1 1 1 0 0 2 1 1		C. State Transporter's ID 100941		D. Transporter's Phone
7. Transporter 2 Company Name			8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
9. Designated Facility Name and Site Address AMERICAN ENVIRONMENTAL SERV. 11055 Middle Rock Road Rancho Cordova, CA 95670			10. US EPA ID Number 7 3 0 9 0 1 0 6 8 1 1 8 7		G. State Facility's ID C A D 9 8 0 0 0 1 1 5 7		H. Facility's Phone (909) 824-9010
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit	I. Waste No.
a. HAZARDOUS WASTE LIQUID, R.O.S., ORG-BA 6105				No.	Type	Wt/Vol	State 411 EPA/Other 1027
b.							State EPA/Other
c.							State EPA/Other
d.							State EPA/Other
J. Additional Descriptions for Materials Listed Above TANK BOTTOM SLUDGE CONTAINING 1,2-DICHLOROBENZENE AND 1,4-DICHLOROBENZENE					K. Handling Codes for Wastes Listed Above a. 14 b. c. d.		
15. Special Handling Instructions and Additional Information USE KEYS APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name CLEVELAND VALLEY				Signature 		Month Day Year 11 12 87	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name JOHN J. CICH		Signature 	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
19. Discrepancy Indication Space Tank bottom sludge removed from tank transported on manifest #90283216. Waste oil tank line d.							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name Samuel E. Jackson				Signature 		Month Day Year 11 02 1988	

Do Not Write Below This Line

GREEN: HAULER RETAINS



SCOTT CO.

MECHANICAL CONTRACTORS
1919 Market Street
P.O. Box 12954
Oakland, California 94604
(415) 834-2333

Contractors License No. 184480

October 26, 1990

H & H Environmental
220 China Basin Street
San Francisco, California 94107

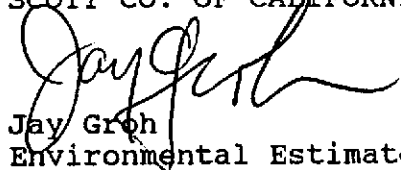
To Whom it May Concern:

H & H Environmental has my permission to transport and sign any paperwork associated with the disposal of one 55-gallon drum of waste. The waste was generated from cleaning the waste oil tank at Groth Brothers' Oldsmobile in Livermore.

Dick Groth has authorized me to sign this letter on his behalf.

Very truly yours,

SCOTT CO. OF CALIFORNIA

A handwritten signature in black ink, appearing to read "Jay Groth", written over the typed name and title.

Jay Groth
Environmental Estimator

JG:jj

H & H SHIP SERVICE LABORATORY
 (A Division of H & H Ship Service Co., Inc.)
 220 China Basin Street
 San Francisco, California 94107
 Tel. (415)543-0906 • FAX (415)543-8265

Date 10-15-90
 Page 1 of 1

LABORATORY CLIENT*: <u>Groth Brothers</u>			CLIENT PROJECT NAME/NUMBER: <u>Scott Co., 1919 Market St</u>		
ADDRESS:			PROJECT CONTACT: <u>Oakland, CA</u>		
CITY:	STATE:	ZIP CODE:	SAMPLER(S) SIGNATURE:		
TELEPHONE:	FAX:				

TURN AROUND TIME DESIRED	<input type="checkbox"/> SAME DAY (100%)	<input type="checkbox"/> 24 HOURS (50%)	<input type="checkbox"/> 48 HOURS (25%)	<input type="checkbox"/> 10 DAYS	LAE ID NUMBER:
Prior confirmation with H&H Laboratory is recommended for rush samples.					H&H JOB NUMBER:

SHIPMENT METHOD:	AFTER ANALYSES, SAMPLES ARE TO BE:	<input type="checkbox"/> DISPOSED OF	<input type="checkbox"/> RETURNED TO CLIENT
		<input type="checkbox"/> STORED (30 DAYS MAX.)	<input type="checkbox"/> OTHER _____

SPECIAL INSTRUCTIONS: Sample relinquished to Scotts Co. (James Churchill) per instructions from Rohan via Patty Easton.

SAMPLE ID	LOCATION DESCRIPTION	SAMPLING		SAMPLE TYPE				SOLID/SOIL	NO. OF CONTAINERS	TESTS REQUIRED
		DATE	TIME	WATER		PETROLEUM				
				Comp.	Grab	Comp.	Grab			
5858	1 Sludge Sample	10/12/90	10:15				✓		1	

Relinquished by (Signature): <u>Peter C. Gimber</u>	Received by: <u>James Churchill</u>	Date: <u>10-15-90</u>	Time: <u>10:45</u>
Relinquished by (Signature): <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date:	Time:
Relinquished by (Signature): <u>[Signature]</u>	Received for Laboratory by (Signature): <u>[Signature]</u>	Date: <u>10/15/90</u>	Time: <u>12:00</u>

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name Zloth Bros. Today's Date 10/11/90

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 59 S. "L" St., Railroad Ave.

City Fremont Zip 94550 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- ___ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(i)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|---|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soil |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Gndwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| | ___ 7. Precs Tank Test 2643 |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing 2646 |
| | ___ 10. Ground Water. 2647 |
| New Tanks | ___ 11. Monitor Plan 2632 |
| | ___ 12. Access, Secure 2634 |
| | ___ 13. Plans Submit 2711 |
| | ___ 14. As Built 2635 |

Comments:
 There are 7 tanks at the 2 addresses (both sites owned by Zloth Bros.). Five tanks were removed from the ground before I could make it on-site (this was arranged in advance). The remaining two tanks will be closed in place, as agreed, in the future.

All five tanks that were removed were being loaded onto the H + H flatbed as I arrived. None of these tanks has any holes visible, although they are all made of bare steel and have no visible corrosion.

Soil in the pits is mixed deposit in a sandy, silty matrix. No groundwater visible, although the soil at sampling depth is moist.

Two samples collected from beneath 1,500 gallon tanks: one sample each from below smaller tanks. Stockpiled soil also sampled.

Rev 5/88

II, III

Contact: _____

Title: _____

Signature: [Signature]

Inspector: _____

Signature: Gilbert M. Winters

APPENDIX D

SUPPORTING DOCUMENTATION
TRI-VALLEY

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

September 18, 1995

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

Marty Hernandez
Tri-Valley Tune Up
1737 First Street
Livermore, CA 94550

**Subject: Failure to implement leak detection monitoring of
underground storage tanks at 1737 First Street,
Livermore, CA 94550**

NOTICE OF VIOLATION

Dear Mr. Hernandez:

On June 29, 1995 during an inspection of the tanks operated at the subject site you were requested by this Department to investigate the depth to groundwater. The data regarding groundwater elevation at the site would aid you in determining the appropriate leak detection method for the five underground storage tanks. Since that date it has been established, using a nearby location, that groundwater can be expected within 20 feet of the bottom of the tanks you operate. As such you were required to begin using statistical inventory reconciliation (SIR) to monitor the tanks for leaks. The SIR monitoring method for all your tanks was to have begun no later than September 1, 1995. Proof of the implementation of SIR was by submission of a signed copy of the contract between you and an approved provider.

As of today no proof of implementation of the SIR leak detection method has been provided to this Department. During a site visit on September 13, 1995 you stated that you could not provide the data needed for the SIR provider due to inadequate dipsticks. Your present dipsticks are not graduated in the legally required 1/8 inch increments.

This letter is to notify you that you are in violation of the California Code of Regulations, Title 23, section 2643(b)(3). You have caused the underground storage tanks to not be properly monitored for the release of hazardous substances. The manual inventory reconciliation currently being performed is unacceptable for the reasons noted above.

Leak detection is required at all times in order to legally operate these five tanks. The SIR method is an acceptable method for monitoring your tanks. This Department is aware that the

Tri-Valley Tune Up
1737 First Street
Livermore, CA
page 2

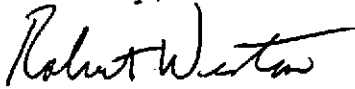
installation of the alternative intank automatic gauge would possibly be cost prohibitive in light of the plans to remove the tanks in the near future.

You are now directed to provide proof of proper and appropriate leak detection for all tanks at your site by October 2, 1995.

Proof will consist of either documentation of the installation of an intank automatic gauge capable of detecting a leak of 0.2 gallon per hour or a copy of a contract with an approved SIR provider with current tank inventory data sheets attached.

Your failure to properly monitor the tanks at the site could result in civil and/or criminal penalties. If you have questions related to this issue please contact me at 567-6781.

Sincerely,



Robert Weston
Sr. Hazardous Materials Specialist

c: Bill Raynolds, East Team Manager, ACDEH
Gil Jensen, Alameda County District Attorney
Ms. Alta F. Lindbeck, Tank Owner, 3151 300 Avenue E,
Oak Harbor, WA 98277

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

August 18, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Alta Lindbeck
~~3151, 3000 Ave #E~~ 3151 300 Ave East
Oak Harbor, WA 98277

**Subject: Notice to Review UST Records at 1737 First Street,
Livermore, CA 94550**

Dear Ms. Lindbeck:

Our office is in the process of investigating a report from the Livermore Arcade Shopping Center regarding the detection of petroleum hydrocarbon products in their upgradient monitoring wells. These wells are part of a San Francisco Bay Regional Water Quality Control Board (RWQCB) investigation of ground water beneath the site shown to be impacted by chlorinated solvents.

Our part of the investigation is to identify owners/operators who are operating or have operated (in the past 5 years) underground storage tanks (USTs) located upgradient from the Livermore Arcade site and requiring them to review:

1. Inventory records for the past 5 years for each tank;
2. The complete history of any tank and/or piping repairs;
3. Records documenting previous fuel leak cleanups; and,
4. Results of tank integrity tests performed within the last 5 years.

Tri Valley Tune-up, located topographically upgradient from the Livermore Arcade site, is one of several potential source sites for the hydrocarbon contamination noted above. Therefore, you are directed to perform the specific tasks, as outlined above, in order to determine whether your facility has suffered a release of product from the USTs. These requirements are imposed under authority granted by the Water Code - Title 23, Chapter 3, California Code of Regulations, on behalf of the S.F. RWQCB.

The results of this record review are to be summarized and submitted to this office **within 15 days of the date of this letter.**

Following review of these documents, we will advise you of any further steps or procedures which you will be required to perform.

Should you have any questions, please contact me at the above number.

Sincerely,



Eva Chu
Hazardous Materials Specialist

cc: Lester Feldman, RWQCB
Mark Thomson, Alameda County District Attorney's Office
Danielle Stefani, Livermore Fire Department
John Hyjer, ADG Development, 44 Montgomery, Suite 1550,
San Francisco, CA 94104
Martin Hernandez, Tri Valley Tune Up, 1737 1st St.,
Livermore, 94550
Edgar Howell/files

Arcade

white - env. health
yellow - facility
pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

01/25/95 II, III

Site ID # 1693 Site Name TRI VALLEY TUNNEL Today's Date 7/25/95
Site Address 1737 FIRST STREET
City LIVERMORE Zip 94550 Phone 443-7474

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories:
 I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 II. Hazardous Materials Business Plan, Acutely Hazardous Materials
 III. Under ground Storage Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments: ON SITE TO SURVEY TANK SYSTEM.
DISPENSER COVERS REMOVED AND PIPING INSPECTED
TO DETERMINE CONSTRUCTION. FILL PIPE, VAPOR RECOVERY
AND TURBINE SUMPS INSPECTED.

ALL SINGLE WALL STEEL TANKS WITH SINGLE WALL
PRESSURE PIPING. NO SPILL CONTAINMENT BASINS
OR OVER FILL PROTECTION PRESENT.

THIS ENTIRE TANK SYSTEM WILL REQUIRE
UP GRADING IN ORDER TO OPERATE PASS
DECEMBER 22, 1998.

APPLICANT COPY OF B FORMS ^{TO BE} PROVIDED.
OWNER REQUIRED TO SIGN FORM A. RETURN
FORM A WITHIN 30 DAYS. PROVIDE COPY OF
CONTRACT ~~OR~~ OR AGREEMENT STATING THAT
OWNER HAS ALLOWED OPERATION AND TANK MONITOR
BY MARTY HERNANDEZ. SUBMIT WITH FORM A.

Contact MARTY HERNANDEZ
Title OWNER
Signature [Signature]

Inspector ROBERT WESTON II, III
Signature [Signature]

white - env. health
yellow - facility
pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

Hazardous Materials Inspection Form

II, III

Site ID # 11693 Site Name TU VALLEY TUNEL Today's Date 6/29/95
Site Address 1737 FIRST STREET
City LIVERMORE Zip 94550 Phone 443-7474

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 II. Hazardous Materials Business Plan, Acutely Hazardous Materials
 III. Under ground Storage Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

THIS FOLLOW UP INSPECTION PERFORMED TO REVIEW DOCUMENTS RELATED TO LEAK DETECTION AND PERMIT ISSUANCE.

REVIEW OF INVENTORY RECORDS FROM JAN 1995 THRU JUNE 1995. VARIATIONS EXCEEDING THE MAXIMUM ALLOWABLE WERE FOUND.

<u>JANUARY 1995 TANK # 1</u>	<u>ALLOWABLE 214 ACTUAL 324</u>
<u>MARCH 1995 TANK # 3</u>	<u>ALLOWABLE 179 ACTUAL 227</u>
<u>APRIL 1995 TANK # 2</u>	<u>ALLOWABLE 178 ACTUAL 291.</u>

APPEARS THAT ERRORS WERE MADE WHEN PERFORMING CALCULATIONS. ALL CALCULATIONS ARE TO BE REVIEWED MONTHLY. INVESTIGATIONS OF LEAKS WILL BE PERFORMED IN A TIMELY MANNER.

COMPLETE AND RETURN FORMS A+B PROVIDED DURING INSPECTION BY JULY 11, 1995 TO THIS OFFICE.

PROVIDE GROUNDWATER DEPTH FOR THIS LOCATION TO DETERMINE IF STATISTICAL INVENTORY RECONCILIATION IS REQUIRED. (IF WATER WITHIN 20 FEET OF TANK BOTTOM).

Contact MARTIN HERNANDEZ
Title S.
Signature [Signature]

Inspector ROBERT WESTON
Signature [Signature]

II, III

**UNDERGROUND STORAGE TANK (UST)
MONITORING PLAN**

Responsible Person

Owner/Manager: Martin Hernandez Jr.

Work Phone Number: (510)443-7474

Home Phone Number: (510)606-7735

1.0 INTRODUCTION

The intent of this monitoring plan is to outline visual and electronic monitoring which must be performed to comply with state and local laws and regulations.

The plan contains policies for monitoring frequency, report/recordkeeping, testing, and a leak response plan. This plan shall be kept on file for viewing by regulatory agencies. Additionally, monitoring records must be maintained for three years.

2.0 DESCRIPTION OF ITEMS BEING MONITORED:

Underground Tanks:

One - 8,000 gallons - Unleaded Plus gasoline
Two - 5,000 gallons - Unleaded gasoline
One - 5,000 gallons - Super unleaded gasoline

3.0 - NOT APPLICABLE

3.1 MONITORING FREQUENCY

Inventory reconciliation is performed daily on each UST using an approved meter and comparing the contents of the tanks to the daily sales. Leaks would be determined by unexplained losses of material stored in the tank. Refer to Section 4.0 for the reporting format used by the service station.

3.2 - NOT APPLICABLE

**UNDERGROUND STORAGE TANK (UST)
MONITORING PLAN**

3.3 ANNUAL SYSTEM INSPECTION

The monitoring system shall be inspected annually by running systems functions as recommended by the manufacturer. Additionally the manufacturer recommends cleaning the monitoring probe annually.

The tanks and piping were also inspected and pressure tested initially before installation at the station. The tanks were tested using United States Environmental Protection Agency (USEPA) regulations and state testing methods and a certified testing company.

3.4 REPORTING AND RECORDKEEPING

Monitoring and tank testing records shall be kept onsite for at least three years. Records of leaks or suspected leaks and the required investigations shall also be kept onsite for three years.

3.5 LEAK RESPONSE PLAN

The following procedures shall be followed by all personnel in the event of a leak or a suspected leak:

1. Facility personnel shall notify the manager/owner immediately if a leak is suspected.
2. If a leak is suspected, the manager/owner shall contact the appropriate Maintenance Department for investigation and corrective action.
3. In the event of a substantial leak of more than five gallons, the manager/owner shall notify the County Health Department. A report including confirming procedures shall be completed within 24 hours.
4. The appropriate Maintenance Department shall respond to a reported leak with a pump-out truck within 24 hours.
5. The leaking tank shall be excavated, repaired or replaced.

**UNDERGROUND STORAGE TANK (UST)
MONITORING PLAN**

6. Appropriate soil and groundwater investigations will commence, if necessary.
7. All records of investigations, repairs, or replacement shall be kept onsite for a minimum of three years.

3.6 TRAINING

The Station Manager periodically inspects the site to ensure a safe work environment. Additionally, employees have received verbal training in the following areas.

1. Emergency shut-off switch location and activation
2. Emergency response notification procedure
3. Shut-down operations
4. Spill clean-up

4.0 REPORTING FORMAT

Tank and meter inventory reconciliation forms shall be completed by the dealer/manager on a daily basis. The attached form shall be completed.

SPILL RESPONSE PLAN
For
Tri Valley Tune-Up
1737 1st Street
Livermore, CA 94550
(510) 443-7474

92 MAY 06 PM 3:27

1.0 EMERGENCY NOTIFICATION

	<u>Phone Number</u>
Station Owner: MARTIN HERNANDEZ JR	W 443-7474 H 606-7735
State Office of Emergency Services:	(800) 852-7550
Alameda County Department of Environmental Health	271-4320
Local Emergency Services	911
Chemtrec	(800) 424-9300
Toxic-Info Center	(800) 233-3360
Ambulance	911
Police	911

2.0 EMERGENCY RESPONSE PROCEDURES

When a release is observed or anticipated, the following steps shall be taken.

1. The emergency shut-off shall be activated if a release originates from a pump island.
2. Service station personnel first on the scene shall immediately take steps to secure the area and establish perimeter control at a safe distance until such time as agency personnel and police or fire department personnel arrive onsite and assume the responsibility.
3. Employee(s) shall contain small releases with absorbent materials to prevent entry into the sewer systems.

SPILL RESPONSE PLAN

4. The station dealer/manager shall determine if there is any potential danger to individuals in the area and take appropriate steps to notify and evacuate. The station dealer/manager, or his designee, shall see that the following occurs:
 - Employees are verbally notified to evacuate.
 - Employees leave through the nearest exit and meet at the farthest distance from the involved area.
 - Customers are escorted from the facility and neighbors are verbally notified.
 - Employees do not reenter the building until the fire department has inspected the premises and certified that it is safe.

In major incidents, county and/or city disaster officials shall make the decision to evacuate the surrounding neighborhoods.

5. The station owner, or his designee, will contact 911 and the Alameda County Health Department who will initiate the emergency response plan.
6. Spill response management shall be the responsibility of the station owner, or his designee, until the arrival of public safety response personnel. In such instance, the station owner will cooperate with and support the designated response personnel.
7. The station owner, or designee, shall contact the designated physician and/or appropriate medical services if any person required minor medical attention. Local emergency services (911) shall be contacted in the event of any medical problem needing immediate attention.

3.0 PROTECTIVE EQUIPMENT

The following protective equipment is onsite for use in the event of an emergency.

1. Fire extinguishers

SPILL RESPONSE PLAN

3.0 PROTECTIVE EQUIPMENT CONT.

2. Gloves for personal protection
3. Absorbent for blocking and diking spills
4. Pan and shovel for removing absorbent
5. Goggles for eye protection

4.0 SPILL CONTAINMENT

In the event of a release, control of the released chemical or hazardous waste is necessary to prevent harm to personnel and/or the environment. The following steps shall be taken to control the spill/release.

1. The respondents shall first control the release by shutting the pumps down, closing valves, plugging holes, or uprighting the leaking container, if possible.
2. Spilled or released material shall be prevented from entering storm drains by diking around the drain inlet with absorbent material or soil. Incompatible material shall be used for diking.
3. Personnel performing tasks discussed in number 1 and 2 above shall use personal protective equipment and remain upwind from the spill/release, as appropriate.
4. The released materials shall be contained by surrounding the hazardous waste with diking booms or diking material (soil, absorbent, bentonite).
5. The released material shall be contained by diking from the farthest point affected by the spill and by working back to the source of the spill.
6. Once the spill is contained it shall be absorbed and/or neutralized and disposed of as hazardous waste.

SPILL RESPONSE PLAN

5.0 DECONTAMINATION/CLEANUP

Released material and involved surrounding soil, if any, shall be removed after the hazardous waste has been contained. The steps outlined below shall be performed.

1. Steps shall be taken to decontaminate all victims and response personnel. Care will be taken to avoid spread of contamination by response vehicles leaving the scene.
2. Use necessary equipment, shovels or a front end loader to load the spilled or released material and any affected soil into drums or a lined bin.
3. Place any leaking, damaged, or corroded drums into overpack drums or transfer the contents of the leaking drums or tanks into intact containers.
4. Label the containers as hazardous waste. Identify the spilled material and the date collected.
5. Transport and dispose of containerized spilled material and affected soil, if any, according to state, federal, and local regulations to an approved disposal facility.

The station owner shall notify the appropriate state and local authorities that a spill/release of hazardous waste has occurred.

APPENDIX D

SUPPORTING DOCUMENTATION
UNOCAL

August 25, 1994

UNOCAL 76

Mr. Kevin Tinsley
Alameda County
Health Care Services
1131 Harbor Bay Parkway,
Alameda, CA 94502

RE: **Notice of Violation**
Unocal SS # 4186
1771 First Street,
Livermore, CA 94550

Dear Mr. Tinsley:

In reference to your notice of violation dated July 28, 1994, enclosed please find the following requested information for the above referenced Unocal service station.

1. Completed SWRCB Forms A and B.
2. Tank, line and leak detection monitoring system integrity tightness test results.
3. Statistical Inventory Reconciliation report from April to July 1994.

Mr. Richard Branchini is the new dealer at this site, therefor a permit must be issued under Mr. Branchini's name.

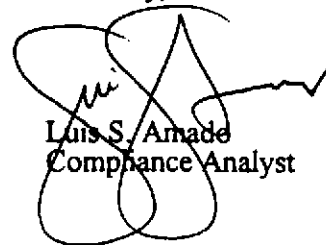
In addition, NDE Environmental Corporation conducted the tank, line and leak detection system certification on March 15, 1994.

The reason for SIR inconclusive report every other month is due to incorrect data submitted by our dealer. The dealer has been advised to check his stick readings to obtain accurate data. Please advise Unocal of any corrective action required at this time.

Upon receiving this information, please void existing violations and issue a UST Permit to Operate for this facility.

Thank you for your assistance in this matter. Should you have any questions, please call me at (714) 572-7659.

Sincerely,



Luis S. Amade
Compliance Analyst

LSA:lsa

Enclosures

cc: G. Abramo - Territory Manager - w/o
R. Branchini - Unocal Dealer - w/
L. Chalom - w/o
R.A. Matson - w/o
S.N. Rizvi - w/o
J.M. Tyson - w/o
Correspondence File - w/o
Environmental Permit File - w/

SIRAS EVALUATION

5.1.1

Processing Date: Thursday, May 12, 1994
Monthly MonitoringSite Name Unocal No. 4186
Address 1771 First St.

Effective Dates 4/1/94 to 4/30/94

Livemore, CA 94550

County

Tank ID No Tank No. 92-1

ATGS used? No

Tank Size in Gallons 10000 Diameter in Inches 0

Tank is scaffolded No

Tank Type Fiberglass - Single Wall

Contents Premium Unleaded: 40%
Regular Unleaded: 60%

Piping Type Unknown

Day	Weekday	Reg. Inv.	Water	Time	Temp.	S. Inv.	Delivery	Time	Rt. Inv.	Daily Diff.	Diff. Com.	Comments
1	Friday	611				975	4,401		4,037	119	119	
2	Saturday	4,156				827	0		3,329	-133	-14	
3	Sunday	3,195				681	2,801		5,316	116	102	
4	Monday	5,432				961	0		4,471	-34	68	
5	Tuesday	4,437				760	0		3,677	-7	61	
6	Wednesday	3,670				832	2,750		5,588	54	115	
7	Thursday	5,643				731	0		4,911	-97	18	
8	Friday	4,814				773	0		4,041	50	68	
9	Saturday	4,031				883	0		3,208	0	68	
10	Sunday	3,203				821	1,894		4,281	0	68	
11	Monday	4,281				688	0		3,593	8	76	
12	Tuesday	3,601				626	0		2,975	-11	65	
13	Wednesday	2,954				750	4,364		6,578	21	86	
14	Thursday	6,539				947	0		5,652	337	423	
15	Friday	5,939				845	0		5,144	-352	71	
16	Saturday	4,792				871	0		3,921	235	306	
17	Sunday	4,156				782	2,753		6,127	34	340	
18	Monday	6,151				652	0		5,499	-49	291	
19	Tuesday	5,450				797	0		4,653	-180	111	
20	Wednesday	4,673				686	2,260		5,987	-464	-353	
21	Thursday	5,523				874	0		4,649	358	5	
22	Friday	5,007				998	0		4,009	-1	4	
23	Saturday	4,003				763	0		3,245	51	55	
24	Sunday	3,296				861	2,751		5,136	-108	-53	
25	Monday	5,078				750	0		4,328	95	42	
26	Tuesday	4,423				780	0		3,643	96	138	
27	Wednesday	3,739				763	2,801		5,774	-62	76	
28	Thursday	5,712				801	0		4,911	-83	-7	
29	Friday	4,828				916	0		3,912	4,704	4,697	
30	Saturday	8,616				836	1,897		9,677	-4,599	98	

An Investigative Loss of 0.136 gpd is calculated at a threshold of 0.1 gpd.

One or more of following conditions is indicated:

Opening Stick Reading Errors, Tank Chart Error - Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.

Data for the days commented should be verified.
For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

3.1.1

Processing Date: Thursday, May 12, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	4/1/94 to 4/30/94	
Address	1771 First St.			
	Livernore, CA 94550	County		
Tank ID No	Tank No. 87-1	ATGS used	No	
Tank Size in Gallons	10000	Diameter in Inches	0	
Tank Type	Fiberglass - Single Wall	Tank is uncoiled	No	
Piping Type	Unknown	Contents:	Regular Unleaded: 60% Premium Unleaded: 40%	

Day	Wednesday	Exp. Inv.	Water	Time	Temp.	Sales	Deliveries	Time	Mo. Inv.	Daily Diff.	Diff. Chg.	Comments
1	Friday	653				1,764	4,001		2,890	-532	-532	
2	Saturday	2,358				1,772	0		586	735	203	
3	Sunday	1,321				1,580	6,201		5,942	-581	-378	
4	Monday	5,361				1,904	0		3,457	144	-234	
5	Tuesday	3,601				1,623	0		1,978	-14	-248	
6	Wednesday	1,964				1,682	6,250		6,532	67	-181	
7	Thursday	6,559				1,822	0		4,777	-56	-237	
8	Friday	4,721				1,825	0		2,896	0	-237	
9	Saturday	2,896				1,517	0		1,379	0	-237	
10	Sunday	1,379				1,576	7,098		6,901	0	-237	
11	Monday	6,901				1,851	0		5,050	28	-209	
12	Tuesday	5,078				1,541	0		3,537	-72	-281	
13	Wednesday	3,455				1,510	4,659		6,614	117	-164	
14	Thursday	6,731				1,654	0		5,067	-275	-439	
15	Friday	4,792				2,113	0		2,679	155	-284	
16	Saturday	2,824				1,562	0		1,272	-122	-406	
17	Sunday	1,150				1,771	6,234		5,633	149	-257	
18	Monday	5,782				1,638	0		4,054	-43	-300	
19	Tuesday	4,051				1,910	0		2,141	33	-267	
20	Wednesday	2,174				1,569	6,250		6,855	7	-260	
21	Thursday	6,862				1,734	0		5,128	-50	-310	
22	Friday	5,078				2,013	0		3,065	-2	-312	
23	Saturday	3,053				1,543	0		1,120	97	-215	
24	Sunday	1,217				1,614	6,250		5,853	-281	-496	
25	Monday	5,572				1,658	0		3,914	242	-254	
26	Tuesday	4,156				2,016	0		2,140	-87	-341	
27	Wednesday	2,033				1,826	6,153		6,380	18	-323	
28	Thursday	6,398				2,174	0		4,224	-68	-391	
29	Friday	4,156				2,073	0		2,083	30	-361	
30	Saturday	2,113				1,854	7,898		8,157	0	-361	No Closing Reading

Tank and lines are tight at a threshold of 0.1 gph.

One or more of following conditions is indicated:

Opening Stick Reading Error, Tank Check Error - Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.
Tank fill is indicated.

Data for the days commented should be verified.
For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

3.1.1

Processing Date: Thursday, August 4, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	5/1/94 to 5/31/94
Address	1771 First St.		
	Livertown, CA 94550	County	
Tank ID No	Tank No. 92-1	ATGS used?	No
Tank Size in Gallons	10000	Tank is manifolded	No
Tank Type	Fiberglass — Single Wall	Contents	Premium Unleaded
Piping Type	Unknown	Dispenser	Unknown
	Diameter in Inches		0

Day	Weekday	Reg. Inv.	Water	Time	Temp.	Sales	Deliveries	Time	Stk. Inv.	Daily Diff.	Diff. Cum.	Comments
1	Sunday	5,078				860	0		4,218	8	8	
2	Monday	4,226				844	0		3,382	-186	-178	
3	Tuesday	5,106				793	0		2,403	17	-161	
4	Wednesday	2,420				760	2,754		4,414	94	-67	
5	Thursday	4,508				891	0		3,617	-50	-117	
6	Friday	3,567				919	1,900		4,548	0	-117	
7	Saturday	4,548				813	0		3,735	142	25	
8	Sunday	3,877				931	0		2,946	-80	-55	
9	Monday	2,866				969	0		1,907	-89	-144	
10	Tuesday	1,818				950	2,730		3,618	121	-23	
11	Wednesday	3,739				754	0		2,985	-54	-77	
12	Thursday	2,931				963	4,359		6,327	105	28	
13	Friday	6,432				1,046	0		5,386	46	74	
14	Saturday	5,432				898	0		4,534	0	74	
15	Sunday	4,534				883	0		3,651	-186	-112	
16	Monday	3,465				1,211	2,804		5,058	20	-92	
17	Tuesday	5,078				775	0		4,303	64	-28	
18	Wednesday	4,357				719	4,701		8,349	213	185	
19	Thursday	8,562				803	0		7,759	-144	41	
20	Friday	7,615				1,172	0		6,443	-180	-139	
21	Saturday	6,263				1,060	0		5,203	229	90	
22	Sunday	5,432				500	0		4,532	-24	66	
23	Monday	4,508				850	0		3,678	-42	24	
24	Tuesday	3,656				773	1,907		4,770	58	82	
25	Wednesday	4,828				994	0		3,834	112	194	
26	Thursday	3,946				1,028	0		2,918	79	273	
27	Friday	2,997				1,184	2,693		4,706	158	431	
28	Saturday	4,864				1,061	0		3,803	143	574	
29	Sunday	3,946				582	0		3,364	-101	473	
30	Monday	3,263				648	0		2,615	-101	372	
31	Tuesday	2,514				712	2,800		4,602	0	372	No Closing Reading

Tank and lines are tight: Water data should be verified.

One or more of following conditions is indicated:

Opening Stick Reading Error, Tank Chart Error — Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.

Key to Error Codes:

DR — Delivery Recording Error Suspected; SE — Sign Error (negative number); OR — Opening Reading Error Suspected

Data for the days commented should be verified. For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

3.1.1

Processing Date: Thursday, August 4, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	5/1/94 to 5/31/94
Address	1771 Flax St.		
	Livermore, CA 94550	County	
Tank ID No	Tank No. 87-1	ATGS used?	No
Tank Size in Gallons	10000	Tank is manifolded	No
Tank Type	Fiberglass — Single Wall	Contents	Regular Unleaded
Piping Type	Unknown	Dispenser	Unknown

Day	Weekday	Bag. Inv.	Water	Time	Temp.	Sales	Deliveries	Time	Bk. Inv.	Daily Diff.	Diff. Cum.	Comments
1	Sunday	7.401				1.830	0		5.521	51	51	
2	Monday	5.572				1.085	0		3.487	-90	-39	
3	Tuesday	3.357				1.846	0		1.551	153	114	
4	Wednesday	1.704				1.873	6.254		6.085	76	190	
5	Thursday	6.161				1.996	0		4.165	-288	-98	
6	Friday	3.877				2.206	7.104		8.775	0	-98	
7	Saturday	8.775				1.991	0		6.784	78	-20	
8	Sunday	6.862				1.825	0		5.037	-101	-121	
9	Monday	4.936				2.273	0		2.663	10	-111	
10	Tuesday	2.673				1.994	6.277		6.956	242	131	
11	Wednesday	7.198				1.761	0		5.437	-182	-51	
12	Thursday	5.255				2.042	4.651		7.864	105	54	
13	Friday	7.969				2.858	0		5.071	-171	-117	
14	Saturday	4.900				1.910	0		2.990	0	-117	
15	Sunday	2.950				1.817	0		1.173	44	-73	
16	Monday	1.217				1.739	6.305		3.783	137	64	
17	Tuesday	5.920				2.016	0		3.907	-99	-35	
18	Wednesday	3.803				2.324	4.351		5.835	-53	-88	
19	Thursday	5.732				2.123	0		3.656	-89	-177	
20	Friday	3.567				2.427	0		1.120	97	-80	
21	Saturday	1.317				2.116	8.539		7.643	29	-51	
22	Sunday	7.675				1.980	0		5.695	17	-34	
23	Monday	5.712				2.040	0		3.672	-36	-70	
24	Tuesday	3.656				2.114	7.138		8.660	195	125	
25	Wednesday	8.855				2.254	0		6.561	-298	-173	
26	Thursday	6.263				2.352	0		3.901	45	-128	
27	Friday	3.946				2.553	5.515		7.028	91	-37	
28	Saturday	7.119				2.372	0		4.747	45	8	
29	Sunday	4.792				1.504	0		3.288	0	8	
30	Monday	3.228				2.411	0		877	578	586	
31	Tuesday	1.455				2.534	6.075		5.016	0	586	No Closing Reading

Tank and lines are tight.

One or more of following conditions is indicated:

Opening Stick Reading Error, Tank Chart Error — Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.

Key to Error Codes:

ER — Delivery Recording Error Suspected; SE — Sign. Error (negative number); OR — Opening Reading Error Suspected

Data for the days commented should be verified. For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

3.1.1

Processing Date: Thursday, August 4, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	6/1/94 to 6/30/94
Address	1771 First St.		
	Livermore, CA 94550	County	
Tank ID No	Tank No. 92-1	ATGS used?	No
Tank Size in Gallons	10000	Tank is manifolded	No
Tank Type	Fiberglass — Single Wall	Contents	Premium Unleaded
Rating Type	Unknown	Dispenser	Unknown
	Distance in Inches	0	

Day	Weekday	Reg. Irr.	Water	Thro	Temp.	Sales	Deliveries	Time	BL Inv.	Daily Diff.	Diff. Cons.	Comments
1	Wednesday	4.792				755	0		4.037	-160	-160	
2	Thursday	3.877				823	0		3.054	9	-151	
3	Friday	3.063				1,005	1,900		3,958	-1,012	-1,163	
4	Saturday	2,946				862	0		2,084	979	-184	
5	Sunday	3.063				763	0		2,500	89	-95	
6	Monday	2,389				867	1,900		3,422	111	16	
7	Tuesday	5,533				703	0		2,827	-250	-234	
8	Wednesday	2,577				545	0		2,031	-140	-374	
9	Thursday	1,891				669	2,600		3,822	20	-354	
10	Friday	3,842				1,113	0		2,729	-88	-442	
11	Saturday	2,641				1,016	0		1,625	-33	-475	
12	Sunday	1,592				1,051	2,775		3,316	115	-360	
13	Monday	3,431				991	0		2,440	-51	-411	
14	Tuesday	2,389				862	1,900		3,427	-131	-542	
15	Wednesday	5,296				811	0		2,485	-143	-685	
16	Thursday	2,342				1,022	0		1,320	54	-631	
17	Friday	1,574				1,096	0		278	2,653	2,022	
18	Saturday	2,931				1,163	2,750		4,518	-2,569	-547	
19	Sunday	1,949				990	0		959	-50	-597	
20	Monday	900				1,273	0		-364	3,037	2,440	
21	Tuesday	2,673				903	2,750		4,520	-2,745	-305	
22	Wednesday	1,775				977	0		798	29	-276	
23	Thursday	827				965	0		-158	2,811	2,535	
24	Friday	2,673				1,278	2,804		4,199	-2,663	-128	
25	Saturday	1,536				1,058	0		478	4,440	4,312	
26	Sunday	4,918				841	4,360		8,437	-3,786	526	
27	Monday	4,651				953	0		3,698	1,309	1,835	
28	Tuesday	5,057				703	1,900		6,204	-2,013	-178	
29	Wednesday	4,191				792	0		3,359	-136	-314	
30	Thursday	3,263				804	1,900		4,359	78	-236	

An Investigative Loss of 0.591 gph is indicated.

One or more of following conditions is indicated:
Opening Stick Reading Errors, Tank Chart Error — Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.
Tank Tilt is indicated.

Key to Error Codes:
DR — Delivery Recording Error Suspected; SE — Sign Error (negative number); OR — Opening Reading Error Suspected
Data for the days commented should be verified. For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

3.1.1

Processing Date: Thursday, August 4, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	6/1/94 to 6/30/94
Address	1771 First St.		
	Livermore, CA 94550	County	
Tank ID No	Tank No. 87-1	ATGS used?	No
Tank Size in Gallons	10000	Diameter in inches	0
Tank Type	Fiberglass — Single Wall	Tank is manifolded	No
Piping Type	Unknown	Contents	Regular Unleaded
		Dispenser	Unknown

Day	Weekday	Reg. Inv.	Water	Time	Temp.	Sales	Deliveries	Time	Bl. Inv.	Daily D/E	Diff. Cons.	Comments
1	Wednesday	5,572				2,398	0		3,174	-243	-243	
2	Thursday	2,931				2,300	0		631	-60	-303	
3	Friday	571				2,360	7,100		5,311	121	-182	
4	Saturday	5,432				1,943	0		3,489	-92	-274	
5	Sunday	3,397				1,891	0		1,506	86	-188	
6	Monday	1,592				2,328	7,104		6,368	510	322	
7	Tuesday	6,878				1,546	0		5,332	-611	-289	
8	Wednesday	4,721				2,522	0		2,199	97	-192	
9	Thursday	2,256				2,508	5,881		3,669	-27	-219	
10	Friday	5,642				2,459	0		3,183	-136	-355	
11	Saturday	3,627				1,778	0		1,269	105	-250	
12	Sunday	1,374				2,111	6,145		5,408	-135	-385	
13	Monday	5,273				2,296	0		2,977	186	-199	
14	Tuesday	3,165				1,756	7,101		8,468	243	44	
15	Wednesday	8,711				2,466	0		6,245	-446	-402	
16	Thursday	5,799				2,544	0		3,255	210	-192	
17	Friday	3,465				2,615	6,253		7,103	-48	-240	
18	Saturday	7,055				2,388	0		4,667	1	-239	
19	Sunday	4,668				2,043	0		2,625	0	-239	
20	Monday	2,625				2,439	6,253		6,439	-657	-856	
21	Tuesday	5,782				2,523	0		3,459	159	-737	
22	Wednesday	3,618				2,446	0		1,172	110	-627	
23	Thursday	1,282				2,320	6,200		5,162	-13	-640	
24	Friday	5,149				2,301	0		2,618	-73	-713	
25	Saturday	2,545				2,054	4,653		5,144	165	-548	
26	Sunday	5,309				2,007	0		3,302	-6	-554	
27	Monday	3,296				2,016	7,132		8,412	-5	-559	
28	Tuesday	8,407				2,038	0		6,369	-174	-733	
29	Wednesday	6,195				2,257	0		3,898	-159	-892	
30	Thursday	3,739				2,596	7,101		8,244	2	-890	

Tank and lines are tight. Water data should be verified.

One or more of following conditions is indicated:

Opening Stick Reading Errors, Tank Chart Error — Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.

Key to Error Codes:

DR — Delivery Recording Error Suspected; SE — Sign Error (negative number); OR — Opening Reading Error Suspected

Data for the days commented should be verified. For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

3.1.1

Processing Date: Wednesday, August 10, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	7/1/94 to 7/31/94
Address	1771 First St.		
	Livermore, CA 94550	County	
Tank ID No	Tank No. 87-1	ATGS used?	No
Tank Size in Gallons	10000	Diameter in Inches	0
Tank Type	Fiberglass — Single Wall	Tank is unvented	No
Piping Type	Unknown	Constants	Regular Unleaded
		Dispenser	Unknown

Day	Weekday	Beg. Inv.	Water	Ther.	Temp.	Sales	Deliveries	Time	Blk. Inv.	Daily Diff.	Dist. Cum.	Comments
1	Friday	8,246				2,638	0		5,608	243	243	
2	Saturday	5,851				1,977	0		3,874	-204	39	
3	Sunday	3,670				1,537	0		2,133	178	217	
4	Monday	2,311				1,680	6,178		6,809	-12	205	
5	Tuesday	6,797				2,170	0		4,627	130	335	
6	Wednesday	4,757				2,640	0		2,317	103	438	
7	Thursday	2,420				2,002	6,300		6,718	-320	118	
8	Friday	6,398				2,315	0		4,083	108	236	
9	Saturday	4,191				2,203	6,150		8,138	216	442	
10	Sunday	8,354				1,593	0		6,761	-63	379	
11	Monday	6,698				2,045	0		4,653	-3	376	
12	Tuesday	4,650				2,274	6,275		8,651	-140	236	
13	Wednesday	8,511				2,364	0		6,147	-89	147	
14	Thursday	6,058				2,053	0		4,005	221	368	
15	Friday	4,226				2,363	6,251		8,114	-33	335	
16	Saturday	8,081				1,936	0		6,085	1,796	1,131	
17	Sunday	7,881				1,701	0		6,180	-2,024	107	
18	Monday	4,156				2,167	0		1,989	64	171	
19	Tuesday	2,659				2,049	6,257		6,261	238	409	
20	Wednesday	6,699				1,981	0		4,518	1,778	2,187	
21	Thursday	6,296				2,077	0		4,219	-1,943	244	
22	Friday	2,276				2,220	6,250		6,306	-43	201	
23	Saturday	6,263				2,028	0		4,235	-79	122	
24	Sunday	4,156				1,667	0		2,489	-315	-193	
25	Monday	2,174				6,634	6,250		1,790	5,137	4,944	
26	Tuesday	6,927				2,012	0		4,909	-45	4,899	
27	Wednesday	4,864				2,265	0		2,578	95	4,994	
28	Thursday	2,673				2,091	6,262		6,844	-702	4,292	
29	Friday	6,143				2,217	0		3,925	442	4,734	
30	Saturday	4,367				1,771	0		2,596	1,077	5,811	
31	Sunday	3,673				1,500	6,280		8,023	0	5,811	No Closing Reading

Tank and lines are tight. Water data should be verified.

One or more of following conditions is indicated:

Opening Stick Reading Errors, Tank Chart Error — Wrong Tank Chart or Conversion Error, or Tank Distortion and/or Deformation.

Key to Error Codes:

DR — Delivery Recording Error Suspected; SE — Sign Error (negative number); OR — Opening Reading Error Suspected

Data for the days commented should be verified. For assistance contact your Regional SIRAS Service Center.

SIRAS EVALUATION

9.1.1

Processing Date: Wednesday, August 10, 1994
Monthly Monitoring

Site Name	Unocal No. 4186	Effective Dates	7/1/94 to 7/31/94
Address	1771 First St.		
	Livermore, CA 94550	County	
Tank ID No	Tank No. 92-1	ATGS used	No
Tank Size in Gallons	10000	Tank is unaffiliated	No
Tank Type	Fiberglass — Single Wall	Contents	Premium Unleaded
Piping Type	Unknown	Dispenser	Unknown
		Efficiency in Inches	0

Day	Weekday	Reg. Inv.	Water	Tank	Temp.	Sales	Deliveries	Time	Ek. Inv.	Daily Diff.	DFT Cum.	Comments
1	Friday	4,457				1,579	0		3,058	272	272	
2	Saturday	3,530				742	0		2,588	-230	42	
3	Sunday	3,558				920	0		1,438	17	59	
4	Monday	1,455				737	2,791		3,509	-44	15	
5	Tuesday	3,465				1,198	0		2,267	91	106	
6	Wednesday	2,358				915	0		1,443	39	145	
7	Thursday	1,482				903	2,801		3,380	-50	95	
8	Friday	3,330				969	0		2,361	59	154	
9	Saturday	2,420				1,054	2,801		4,167	200	354	
10	Sunday	4,357				934	0		3,433	-36	318	
11	Monday	3,397				707	0		2,690	-145	173	
12	Tuesday	2,545				686	2,755		4,614	178	351	
13	Wednesday	4,792				983	0		3,809	-208	143	
14	Thursday	3,601				1,205	0		2,396	277	420	
15	Friday	2,673				1,169	2,752		4,316	405	825	
16	Saturday	4,721				923	0		3,798	569	1,394	
17	Sunday	4,367				797	0		3,570	-929	465	
18	Monday	2,641				909	0		1,732	0	465	
19	Tuesday	1,732				684	2,802		3,850	-42	423	
20	Wednesday	3,603				848	0		2,960	37	460	
21	Thursday	2,997				773	0		2,224	72	532	
22	Friday	2,296				872	2,755		4,179	-23	509	
23	Saturday	4,156				1,051	0		3,105	24	533	
24	Sunday	3,129				797	0		2,552	-158	375	
25	Monday	2,174				682	2,754		4,246	-55	320	
26	Tuesday	4,191				854	0		5,397	-7	313	
27	Wednesday	3,350				950	0		2,340	205	518	
28	Thursday	2,545				979	2,750		4,316	-195	323	
29	Friday	4,121				1,601	0		2,520	411	734	
30	Saturday	2,931				867	0		2,084	150	884	
31	Sunday	2,254				1,172	2,753		3,815	0	884	No Closing Reading

Tank and Lines are tight. Water data should be verified.

One or more of following conditions is indicated:

Opening Stick Reading Errors, Tank Chart Error — Wrong Tank Chart or Conversion Error, c: Tank Distortion and/or Deformation, Sales Meter Misalignment is indicated.

Key to Error Codes:

DR — Delivery Recording Error Suspected; SE — Sign Error (negative number); OR — Opening Reading Error Suspected

Data for the days commented should be verified. For assistance contact your Regional SIRAS Service Center.

CERTIFICATE OF UNDERGROUND STORAGE TANK SYSTEM TESTING

NDE ENVIRONMENTAL CORPORATION
 20000 MARINER AVENUE, SUITE 500
 TORRANCE, CALIFORNIA 90503
 (310) 542-4342
 FAX (310) 542-6657



TEST RESULT SITE SUMMARY REPORT

TEST TYPE: **VPLT**

TEST DATE: **March 15, 1994**

WORK ORDER NUMBER: **962292**

INVOICE DATE:

INVOICE NUMBER:

CLIENT: **UNOCAL OIL CORP
 P.O. BOX 2390
 BREA, CA 92622-2390**

SITE: **UNOCAL 4186
 1771 FIRST ST
 LIVERMORE, CA 94550**

ATTN: **LESTER CHENG**

The following tests were conducted at the site above in accordance with all applicable portions of Federal, NFP A and local regulations.

Tank Tests

TANK NUMBER	PRODUCT	TANK CAPACITY (Gallons)	TANK DIAMETER (Inches)	TANK RESULT	VOLUME CHANGE (gph)	ULLAGE RESULT
1	SUPER	10,000	91.00	PASS	-0.032	PASS
2	UNLEADED	10,000	90.00	PASS	0.033	PASS

Line and Leak Detector Tests

TANK NUMBER	PRODUCT	VOLUME CHANGE (gph)				LINE RESULT (P=pass, F=fail, I=inconclusive) A B C D	LEAK DETECTOR PRESENT	LEAK DETECTOR RESULT
		A	B	C	D			
1	SUPER	0.005				P	YES	PASS
2	UNLEADED	0.007				P	YES	PASS

NDE appreciates the opportunity to serve you, and looks forward to working with you in the future. Please call any time, day or night, when you need us.

NDE Customer Service Representative:

Test conducted by:

JERRY BELLOLI

MIKE LAWRENCE

Reviewed:

Technician Certification Number:

INDIVIDUAL TANK/LINE/LEAK DETECTOR TEST REPORT
NDE ENVIRONMENTAL CORPORATION



TEST DATE: **March 15, 1994**
 CLIENT: **UROCAL OIL CORP**

WORK ORDER NUMBER: **962292**
 SITE: **UROCAL 4186**

TANK INFORMATION			
Tank ID:	1	Bottom to top fill in inches:	122.0
Product:	SUPER	Bottom to grade fill in inches:	131.0
Capacity in gallons:	10,000	Fill pipe length in inches:	31.0
Diameter in inches:	91.00	Fill pipe diameter in inches:	4.0
Length in inches:	360	Stage I vapor recovery:	DUAL
Material:	FIBERGLASS	Stage II vapor recovery:	BALANCE
Tank:	NO		
Manifolded:	NO		
V/R:	NO		

COMMENTS

TANK TEST RESULTS	
Test method:	VPLT
Psi at tank bottom:	
Fuel level in inches:	71.00
UFT/OFT:	UFT
Fuel volume in gallons:	8,431
Water level in inches:	1.00
Test time:	21:10-00:09
Number of thermisters:	5
Specific gravity:	0.720
Water table depth in inches:	135.00
Determined by (method):	POINT WELL
Leak rate in gph:	-0.032
RESULT:	PASS

COMMENTS

LEAK DETECTOR RESULTS		
	New/passed detector	Failed/replaced detector
Test method:	PTA	
Make:	RED JACKET	
Model:	P.L.D.	
S/N:	21286-9885	
Open time in sec:	4.00	
Holding psi:	17	
Resiliency cc:	220	
Test leak rate ml/h:	189.0	
Metering psi:	10	
Calib. leak in gph:	3.00	
RESULT:	PASS	

COMMENTS

ULLAGE TEST RESULTS	
Test method:	UTS-4 SYSTEM
Test time:	00:30-01:30
Ullage volume:	1,569
Ullage pressure:	2.20
RESULT:	PASS
DATA FOR UTS-4T ONLY:	
Time of test 1:	01:00-01:10
Temperature:	59.00
Flow rate:	0.200-0.100
Time of test 2:	01:10-01:20
Temperature:	59.00
Flow rate:	0.200-0.100
Time of test 3:	01:20-01:30
Temperature:	59.00
Flow rate:	0.200-0.050

COMMENTS

LINE TEST RESULTS	
Material:	FIBERGLASS
Diameter (in):	2.0
Length (in):	
Test psi:	50
Bleedback cc:	0
Test start time:	0
Test 1: start time:	21:20
finish psi:	48
vol change cc:	6
Test 2: start time:	21:30
finish psi:	49
vol change cc:	4
Test 3: start time:	21:40
finish psi:	50
vol change cc:	0
Final gph:	0.005
RESULT:	PASS
Test type:	PTK-88
Pump type:	PRESSURE
Pump make:	RED JACKET

COMMENTS

INDIVIDUAL TANK/LINE/LEAK DETECTOR TEST REPORT
NDE ENVIRONMENTAL CORPORATION



TEST DATE: **March 15, 1994**
 CLIENT: **UNOCAL OIL CORP**

WORK ORDER NUMBER: **962292**
 SITE: **UNOCAL 4186**

TANK INFORMATION			
Tank ID:	2	Bottom to top fill in inches:	122.0
Product:	UNLEADED	Bottom to grade fill in inches:	132.0
Capacity in gallons:	10,000	Fill pipe length in inches:	32.0
Diameter in inches:	90.00	Fill pipe diameter in inches:	4.0
Length in inches:	368	Stage I vapor recovery:	DUAL
Material:	FIBERGLASS	Stage II vapor recovery:	BALANCE
Tank:	NO		
Manifolded Vent:	NO		
V/R:	NO		

COMMENTS

TANK TEST RESULTS	
Test method:	VFLT
Psi at tank bottom:	1.74
Fuel level in inches:	67.00
UFT/OFT:	UFT
Fuel volume in gallons:	7,994
Water level in inches:	0.00
Test time:	21:29-23:30
Number of thermisters:	5
Specific gravity:	0.720
Water table depth in inches:	135.00
Determined by (method):	POINT WELL
Leak rate in gph:	0.033
RESULT:	PASS

LEAK DETECTOR RESULTS		
	New/passed detector	Failed/replaced detector
Test method:	PTA	
Make:	RED JACKET	
Model:	X.L.P.	
S/N:	20990-6102	
Open time in sec:	4.00	
Holding psi:	18	
Resiliency cc:	250	
Test leak rate ml/h:	189.0	
Metering psi:	10	
Calib. leak in gph:	3.00	
RESULT:	PASS	

ULLAGE TEST RESULTS	
Test method:	UTS-4 SYSTEM
Test time:	00:30-01:30
Ullage volume:	2,006
Ullage pressure:	2.20
RESULT:	PASS
DATA FOR UTS-4T ONLY:	
Time of test 1:	01:00-01:10
Temperature:	60.00
Flow rate:	0.200-0.100
Time of test 2:	01:10-01:20
Temperature:	60.00
Flow rate:	0.200-
Time of test 3:	01:20-01:30
Temperature:	60.00
Flow rate:	0.200-

LINE TEST RESULTS	
LINE	A B C D
Material:	FIBERGLASS
Diameter (in):	2.0
Length (in):	
Test psi:	50
Bleedback cc:	0
Test start time:	30
Test 1: start time:	21:30
finish psi:	48
vol change cc:	8
Test 2: start time:	21:40
finish psi:	49
vol change cc:	5
Test 3: start time:	21:50
finish psi:	49
vol change cc:	1
Final gph:	0.007
RESULT:	PASS
Test type:	PTK-88
Pump type:	PRESSURE
Pump make:	RED JACKET

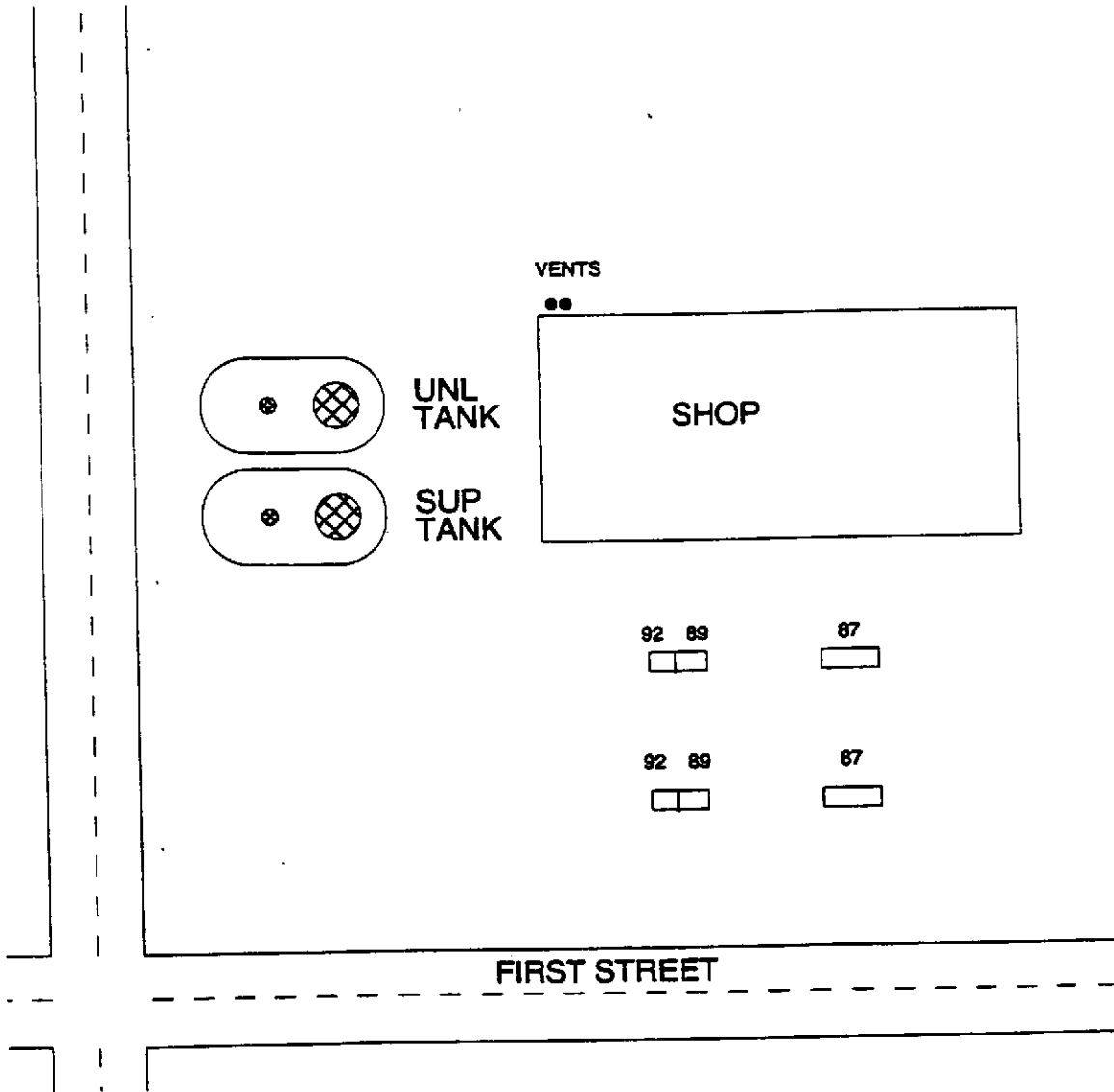
SITE DIAGRAM

NDE ENVIRONMENTAL CORPORATION
20000 MARINER AVENUE, SUITE 500
TORRANCE, CALIFORNIA 90503
(310) 542-4342
FAX (310) 542-6657



TEST DATE: March 15, 1994
CLIENT: UNOCAL OIL CORP

WORK ORDER NUMBER: 962292
SITE: UNOCAL 4186





AUG 17 1994

RAFAT A. SHAHID, Assistant Agency Director

July 28, 1994

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Mr. Luis Amado, Permit Analyst
Unocal, M.E. and C. Department
Unocal
P.O. Box 2390
Brea, California 92622-2390

Re: Unocal Service Station #4186, 1771 First Street, Livermore,
California 94550

NOTICE OF VIOLATION

Dear Mr. Amado:

Our records indicate the underground tank facility named above, which is owned or controlled by you, is operating in violation of Title 23 of the California Code of Regulations. According to section 2620 of this regulation, the owner and operator are required to monitor their tanks for leaks and maintain proper records. Additionally, section 2650(e)-(4) requires reporting your monitoring procedures, unusual operating conditions and leaks to this office. Once your monitoring practices are verified, this Agency will issue a valid permit to operate.

The following is a list of deficiencies, which must be corrected for permit approval:

1. Section 2712 (d) - Permit Conditions

ok
The current U.S.T. application forms "A" and "B"s are signed by the previous facility operator. New forms with the new owner or operator, Mr. Richard Branchini signature is needed. The new forms are required to transfer the permit.

2. Section 2643 (c)-(1) - Pipeline Monitoring

The pipeline monitoring device has not been tested. Verify by inspection and testing the proper operation of the mechanical flow restrictor to detects pipeline leaks hourly at any pressure.

3. Section 2643 (b)-(3 or 4) - Non-Visual Monitoring

The Statistical Inventory Reconciliation report and Manual inventory reconciliation data or the daily tank stick readings were not available during the inspection May 19, 1993. The inspection report requested you to submit the inventory reconciliation data. This information has not yet been received. You are required to submit the S.I.R. certification letters indicating the fuel tanks are tight or the inventory reconciliation data for four consecutive months (ie March, April, May and June 1994).

4. Section 25284, (Chapter 6.7 Health and Safety Code) - Permit to own or operate Underground Storage Tanks.

102
The underground storage tanks have been in operation, under new ownership and without a permit issued from this agency, since May 19, 1993. Submit all required monitoring forms and applications to verify you are in compliance with section 25292 (H. and S. Code). This information must be evaluated for permit issuance.

You are hereby notified that all of the above listed violations must be corrected within 30 days after receipt of this notice. All of the requested documentation must be submitted to this office. Following the correction period of 30 days, a reinspection of your facility will be conducted to verify compliance. Failure to make the necessary corrections will necessitate the referral of your case to the District Attorney's Office for legal action. Be aware that section 25299 (H. and S. Code) states that any operator or owner of a underground tank can be subject to a civil penalty of not less than five hundred dollars or more than five thousand dollars per day for failure to obtain a permit, or failing to properly close an underground tank, as required by section 25298.

This Notice of Violation is issued to you under the authority of the California Health and Safety Code, Chapter 6.7, section 25288. Copies of the code sections referred to herein may be reviewed at most public Libraries or at this agency.

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name LIVERMORE SELF SERVE Today's Date 7/14/94

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 1771 First St

City LIVERMORE Zip 94550 Phone 455-0121

___ MAX AMT stored > 500 lbs. 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- ___ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

II.B ACUTELY HAZ. MATS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Read? (Y/N)
- ___ 14. OnSite Correc. Assess 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

File review to determine if monitoring complies with Title 23 regulations for permit issuance. Waste oil tank was removed 5/93 and inspected by Eva Chu of this office. Site tested clean for waste oil contamination at that time. Some trace gasoline level revealed. Last integrity test was rec'd 3-15-94 for two steel 10,000 gallon tanks. Both certified tight by NDE Environmental of Torrance California 90503. Conflicting reports states tanks maybe fiberglass, installed in 1979. A and B forms states tanks are fiberglass. Integrity test also tested lines tight and mechanical leak detectors present.

A S.I.R. report is necessary from the last three consecutive months certifying daily and monthly I.R. variations are within allowable limits, for 5 year permit approval.

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|---|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Groundwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| | ___ 7. Precs Tank Test 2643 |
| | Date: _____ |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing 2646 |
| ___ 10. Ground Water. 2647 | |
| New Tanks | ___ 11. Monitor Plan 2632 |
| | ___ 12. Access. Secure 2634 |
| | ___ 13. Plans Submit 2711 |
| | Date: _____ |
| ___ 14. As Built 2635 | |
| Date: _____ | |

Rev 6/88

Lynnda Chatham
 Local Tank test Program
 (714) 572-7653
 Contact: FILE

Title: _____

Inspector: KEVIN TRISLEY

Signature: _____

Signature: K

SIR Done by Triangle Environmental, Burbank, Ca 91502 (818) 840-7020 contact is
 Susane Dalton.

II, III

white -env.health
 yellow -facility
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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name LIVERMORE SELF-SERVE Today's Date 5/19/13

Site Address 1771 First St.

City Livermore Zip 94550 Phone 455-0121

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Inspection this date to determine compliance with Title 23 C.C.R. (underground tank regulations) for issuance of a 5-year Final Permit. Inspection revealed a change of ownership to Richard Branchini and new business name, see above. Also the site survey was conducted. There were no spill basins around fuel tank fill risers. Waste oil tank is located at south-west corner of garage and a sewer opening at rear of building appears to be a tank riser. Waste oil tank has a remote fill in corner of unused service bay area. Tank is not used at this time but is not locked. Employee states monitoring is done by inventory reconciliation. Rooftop picks up daily stick readings. You must submit a new underground tank application "A" form with new owners name and "B" form for waste oil tank; 2) Site Plot Plan which is not on file; 3) Waste oil tank integrity test may be required; 4) Annual letter certifying daily variations are within allowable limits for inventory reconciliation;

Contact: _____ Title: Cashier/ attendant Inspector: Kevin Tinsley
 Signature: [Signature] Signature: [Signature]

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
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- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N) _____
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- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) _____
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Annual tank test
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Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank test
 - 8) Annual Tank Testing
Daily inventory
 - 9) Other _____
- 7. Precis Tank Test 2643
Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647
- New Tanks**
- 11. Monitor Plan 2632
- 12. Access. Secure 2634
- 13. Plans Submit 2711
Date: _____
- 14. As Built 2635
Date: _____

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5) Pay appropriate fees for waste oil tank. Provide locking cap for waste oil tank
 6) Test mechanical flow restrictors for proper operation. Prior to Permit approval