

PACIFIC ENVIRONMENTAL GROUP, INC.

**RECEIVED**  
 11:38 am, Jun 17, 2009  
 Alameda County Environmental Health

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 MAR 10 1997

Date: March 5, 1997  
 Project: 311-127.5A

To: City of San Leandro - WPCP  
3000 Davis Street  
San Leandro, California 94577-2236

FILE #	<u>5367</u>	SS	<input checked="" type="checkbox"/>	BP	<input type="checkbox"/>
RPT	<input checked="" type="checkbox"/>	QM	<input type="checkbox"/>	TRANSMITTAL	<input type="checkbox"/>
1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>
4	<input type="checkbox"/>	5	<input type="checkbox"/>	6	<input type="checkbox"/>

We have enclosed:

Copies	Description
<u>1</u>	<u>Monthly Discharge Report (1/9/97 - 2/19/97)</u>
<u>1</u>	<u>Table 1 - Treatment System Metered Volume</u>
<u>1</u>	<u>Table 2 - Groundwater Extraction System Analytical Data</u>
<u>1</u>	<u>Certified analytical report chain-of-custody documentation (2/6/97)</u>
	<u>(Re: 76 Station 5367, 500 Bancroft Avenue, San Leandro)</u>

For your:  Use  
 and Approval  
 Review  
 Information

Comments: Attached are the monthly discharge report for the site referenced above,  
tables providing operational and analytical data, and the certified analytical report for  
samples taken February 6, 1997. Please call if you have any questions.

Suzanne McClurkin-Nelson *SMN*  
 Staff Scientist

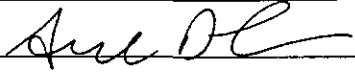
cc: Ms. Tina Berry, Unocal Corporation

3111275AMSR0297

MONTHLY DISCHARGE REPORT  
UNOCAL GROUNDWATER CLEAN-UP PROJECT

This letter and enclosed documents are to serve as Unocal's Groundwater Clean-up project monthly discharge report to the City of San Leandro for the reporting period of: 01/09/97 to 02/19/97.

This report is in compliance with 40 CFR 403.12 and Part IV-A of our Discharge Permit No. SD-023. The information contained in this report is accurate and complete. For any questions or comments in this report, contact me at (408) 441-7500.

Number of days discharged: 41 days  
Total monthly discharge: 122,260 U. S. Gallons  
Signature of Certifying Official:   
Printed Name of Official: Andrew D. Lehane  
Title: Project Engineer, Pacific Environmental Group, Inc.  
Date: March 5, 1997

Attach a brief statement summarizing the months operations.

Site visits were made on February 6 and 19, 1997. The system totalizer was replaced on January 9, 1997 and the system appears to be running smoothly. There were no operational changes during this time.

Table 1  
Treatment System Metered Volume

76 Service Station 5367  
500 Bancroft Avenue at Dowling  
San Leandro, California

Date Sampled	Volume Reading (gallons)	Net Volume (gallons)	Cumulative System Discharge To Date (gallons)	Average Total System Discharge (gpm)	Average Total System Discharge (gpd)
03/18/96	0	0	0	0.0	0
03/22/96	16,200	16,200	16,200	2.8	4,050
04/08/96	77,630	61,430	77,630	2.5	3,614
04/26/96	95,700	18,070	95,700	0.7	1,004
05/16/96 a	133,800	38,100	133,800	1.3	1,905
06/06/96	216,850	83,050	216,850	2.7	3,955
07/17/96	233,320	16,470	233,320	0.3	402
08/05/96	249,570	16,250	249,570	0.6	855
08/19/96	249,670	100	249,670	0.005	7
09/10/96	249,820	150	249,820	0.005	7
09/26/96	250,300	480	250,300	0.02	30
10/15/96	266,527	16,227	266,527	0.6	854
10/28/96	267,653	1,126	267,653	N/A	N/A
11/14/96 b	267,653	0	267,653	N/A	N/A
12/11/96 b	267,663	10	267,663	N/A	N/A
12/20/96	267,869	206	267,869	N/A	N/A
01/09/97	270,121 c	2,252	270,121	N/A	N/A
02/19/97	122,270 c	122,260	392,381	2.1	2,982
<b>REPORTING PERIOD:</b>				<b>01/09/97 - 02/19/97</b>	
<b>PERIOD VOLUME DISCHARGED:</b>				<b>122,260</b>	
<b>PERIOD DAYS DISCHARGED:</b>				<b>41</b>	
gpm = Gallons per minute					
gpd = Gallons per day					
a. Project transferred to Pacific Environmental Group, Inc. from PSI.					
b. Pumps are operating but not pumping any groundwater.					
c. Totalizer replaced 1/9/97 (starting at 00010 gallons).					

Table 2  
**Groundwater Extraction System Analytical Data**  
 Total Petroleum Hydrocarbons  
 (TPPH and BTEX Compounds)

76 Service Station 5367  
 500 Bancroft Avenue at Dowling  
 San Leandro, California

Date Sampled	TPPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)
<b>Influent Samples</b>					
05/16/96	17,000	98	92	1,300	3,900
06/06/96	5,500	35	17	200	780
07/17/96	1,700	14	<5.0	91	89
08/05/96	1,800	10	<5.0	160	410
09/10/96	9,700	29	<10	600	1,600
10/15/96	54,000	200	90	2,800	8,900
12/11/96	12,000	56	21	820	2,700
01/09/97	19,000	44	<20	1,200	2,700
02/06/97	19,000	61	10	1,200	2,700
<b>Midpoint Samples</b>					
05/16/96	<50	<0.50	<0.50	<0.50	<0.50
06/06/96	<50	<0.50	<0.50	<0.50	<0.50
07/17/96	<50	<0.50	<0.50	<0.50	<0.50
08/05/96	<50	<0.50	<0.50	<0.50	<0.50
09/10/96	<50	<0.50	<0.50	<0.50	0.60
10/15/96	<50	<0.50	<0.50	<0.50	0.60
11/14/96	<50	<0.50	<0.50	<0.50	<0.50
12/11/96	<50	<0.50	<0.50	<0.50	<0.50
01/09/97	<50	<0.50	<0.50	<0.50	<0.50
02/06/97	<50	<0.50	<0.50	<0.50	<0.50
<b>Effluent Samples</b>					
05/16/96	<50	<0.50	<0.50	<0.50	<0.50
06/06/96	<50	<0.50	<0.50	<0.50	<0.50
07/17/96	<50	<0.50	<0.50	<0.50	<0.50
08/05/96	<50	<0.50	<0.50	<0.50	<0.50
09/10/96	<50	<0.50	<0.50	<0.50	<0.50
10/15/96	<50	<0.50	<0.50	<0.50	<0.50
11/14/96	<50	<0.50	<0.50	<0.50	<0.50
12/11/96	<50	<0.50	<0.50	<0.50	<0.50
01/09/97	<50	<0.50	<0.50	<0.50	<0.50
02/06/97	<50	<0.50	<0.50	<0.50	<0.50
TPPH = Total purgeable petroleum hydrocarbons µg/L = Micrograms per liter a. Project transferred to Pacific Environmental Group, Inc. from PSI.					



**Sequoia  
Analytical**

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819 Striker Avenue, Suite 8

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FAX (916) 921-0100

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FEB 27 1997

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 310-127.5A/5367, San Leandro Sample Descript: Infl Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9702522-01	Sampled: 02/06/97 Received: 02/07/97 Analyzed: 02/18/97 Reported: 02/19/97
------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC021897BTEX03A  
Instrument ID: GCHP3

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	19000
Benzene	10	61
Toluene	10	10
Ethyl Benzene	10	1200
Xylenes (Total)	10	2700
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Tod*  
\_\_\_\_\_  
Tod Granicher  
Project Manager





**Sequoia  
Analytical**

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Pacific Environmental Group  
2025 Gateway Place, Suite 440  
San Jose, CA 95110

Client Proj. ID: 310-127.5A/5367, San Leandro  
Sample Descript: Mid-2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9702522-02

Sampled: 02/06/97  
Received: 02/07/97  
Analyzed: 02/18/97  
Reported: 02/19/97

Attention: Jessica Nelligan

QC Batch Number: GC021897BTEX03A  
Instrument ID: GCHP3

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	84

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

*Tod*  
\_\_\_\_\_  
Tod Granicher  
Project Manager





**Sequoia  
Analytical**

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 310-127.5A/5367, San Leandro Sample Descript: Effl Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9702522-03	Sampled: 02/06/97 Received: 02/07/97 Analyzed: 02/18/97 Reported: 02/19/97
Attention: Jessica Nelligan		


QC Batch Number: GC021897BTEX03A  
Instrument ID: GCHP3

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	108

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
\_\_\_\_\_  
Tod Granicher  
Project Manager





Sequoia  
Analytical

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Pacific Environmental Group  
2025 Gateway Place, Suite 440  
San Jose, CA 95110  
Attention: Jessica Nelligan

Client Proj. ID: 310-127.5A/5367, San Leandro

Received: 02/07/97

Lab Proj. ID: 9702522

Reported: 02/19/97

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

  
Tod Granicher  
Project Manager





Pacific Environmental Group  
2025 Gateway Place, Suite 440  
San Jose, CA 95110  
Attention: Jessica Nelligan

Client Project ID: 310-127.5A / 5367, San Leandro  
Matrix: LIQUID

Work Order #: 9702522 01-03

Reported: Feb 20, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC021897BTEX03A	GC021897BTEX03A	GC021897BTEX03A	GC021897BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	970235103	970235103	970235103	970235103
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/18/97	2/18/97	2/18/97	2/18/97
Analyzed Date:	2/18/97	2/18/97	2/18/97	2/18/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	12	12	12	32
MS % Recovery:	120	120	120	107
Dup. Result:	12	12	12	32
MSD % Recov.:	120	120	120	107
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK021897A	BLK021897A	BLK021897A	BLK021897A
Prepared Date:	2/18/97	2/18/97	2/18/97	2/18/97
Analyzed Date:	2/18/97	2/18/97	2/18/97	2/18/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	11	11	30
LCS % Recov.:	110	110	110	100

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

*Jule*  
Tod Granicher  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9702522.PPP <1>

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG  
 REC. BY (PRINT) L Kim

WORKORDER: 9702522  
 DATE OF LOG-IN: 2-11-97

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="radio"/> Absent Intact / Broken*	1	A-C	Infi	3vca	lig	2/6	
2. Custody Seal #:	Put in Remarks Section	2	↓	MID-2	↓	↓	↓	
3. Chain-of-Custody	<input checked="" type="radio"/> Present / Absent*	3	↓	EFFI	↓	↓	↓	
4. Traffic Reports or Packing List:	Present / <input checked="" type="radio"/> Absent							
5. Airbill:	Airbill / <del>Sticker</del> Present / <input checked="" type="radio"/> Absent							
6. Airbill #:								
7. Sample Tags:	<input checked="" type="radio"/> Present / Absent							
Sample Tags #s:	<input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	<input checked="" type="radio"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<input checked="" type="radio"/> Yes / No*							
10. Proper Preservatives used:	<input checked="" type="radio"/> Yes / No*							
11. Date Rec. at Lab:	<u>2/7/97</u>							
12. Time Rec. at Lab:	<u>1250</u>							
13. Temp Rec. at Lab:	<u>10°C</u>							

*Handwritten signature and date:*  
 L Kim 2/7

\*if Circled, contact Project Manager and attach record of resolution.



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- 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Consultant Company: <u>Pacific Env. Group Inc</u>		Project Name: <u>310-127.5A</u>	
Address: <u>2025 GATEWAY PL, Suite 440</u>		UNOCAL Project Manager: <u>TINA Barry</u>	
City: <u>SAN JOSE</u>	State: <u>CA</u>	Zip Code: <u>95110</u>	AFE #:
Telephone: <u>(408) 441-7500</u>		FAX #: <u>(408) 441-7539</u>	
Report To: <u>Jessica Nelligan</u>		Sampler: <u>Don Waterman</u>	
		Site #, City, State: <u>5367 SAN LEANDRO, CA</u>	
		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Drinking Water	Analyses Requested: <u>9702522</u>
Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours	<input checked="" type="checkbox"/> Waste Water	
CODE: <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure	<input type="checkbox"/> Other	

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH 5 / STEX										Comments							
1. <u>INFI</u>	<u>2/6/97 11:00</u>	<u>H2O</u>	<u>3</u>	<u>VOA</u>	<u>1</u>																		
2. <u>MID-2</u>	↓	↓	↓	↓	<u>2</u>																		
3. <u>EFFI</u>	↓	↓	↓	↓	<u>3</u>																		
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

Relinquished By: <u>Don Waterman</u>	Date: <u>2-6-97</u>	Time: <u>14:00</u>	Received By: <u>D. Alarcon</u>	Date: <u>2/6/97</u>	Time: <u>14:00</u>
Relinquished By: <u>D. Alarcon</u>	Date: <u>2/7/97</u>	Time: <u>11:45</u>	Received By: <u>Shirley</u>	Date: <u>2/7/97</u>	Time: <u>11:45</u>
Relinquished By: <u>Shirley</u>	Date: <u>2/7/97</u>	Time: <u>12:40</u>	Received By Lab: <u>Lin</u>	Date: <u>2/7/97</u>	Time: <u>12:50</u>

Were Samples Received in Good Condition?  Yes  No      Samples on Ice?  Yes  No      Method of Shipment \_\_\_\_\_      Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_

Approved by: D. Alarcon      Signature: D. Alarcon      Company: PEG      Date: 2/21/97

Pink - Client  
Yellow - Laboratory  
White - Laboratory