

PACIFIC ENVIRONMENTAL GROUP, INC.

RECEIVED

11:39 am, Jun 17, 2009

Alameda County
Environmental Health

Date: February 4, 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 (12/20/96 - 1/9/97)</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 (1/9/97)</u>
	(Re: 76 Station 5367, 500 Bancroft Avenue, San Leandro)

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 January 9, 1997. The system totalizer was replaced on that date, and the system now appears to be fully operational. Please call if you have any questions.

Suzanne McClurkin-Nelson *gmn*
Staff Scientist

cc: Ms. Tina Berry, Unocal Corporation
3111275AMSR1296

RECEIVED
FEB 06 1997

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: 12/20/96 to 01/09/97.

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: N/A

Total monthly discharge: 2,252 U. S. Gallons

Signature of Certifying Official: 

Printed Name of Official: Andrew D. Lehane

Title: Project Engineer, Pacific Environmental Group, Inc.

Date: February 4, 1997

Attach a brief statement summarizing the months operations.

Site visits were made on January 9 and 22, 1997. The groundwater system had been running but not discharging due to pump problems; the system totalizer was replaced on January 9, 1997 and the system appeared to be running smoothly as of January 22, 1997. 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 c	270,121 c	2,252	270,121	N/A	N/A
REPORTING PERIOD:				12/20/96 - 01/09/97	
PERIOD VOLUME DISCHARGED:				2,252	
PERIOD DAYS DISCHARGED:				N/A	
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)	Ethylbenzene (µg/L)	Xylenes (µg/L)
Influent Samples					
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
Midpoint Samples					
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
Effluent Samples					
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
TPPH = Total purgeable petroleum hydrocarbons					
µg/L = Micrograms per liter					
a. Project transferred to Pacific Environmental Group, Inc. from PSI.					

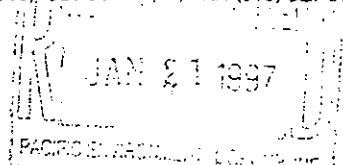


**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600 FAX (415) 364-9233
(510) 988-9600 FAX (510) 988-9673
(916) 921-9600 FAX (916) 921-0100



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: 9701550-01	Sampled: 01/09/97 Received: 01/10/97 Analyzed: 01/16/97 Reported: 01/20/97
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QC Batch Number: GC011697BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	19000
Benzene	20	44
Toluene	20	N.D.
Ethyl Benzene	20	1200
Xylenes (Total)	20	2700
Chromatogram Pattern: Weathered Gas		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

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

SEQUOIA ANALYTICAL - ELAP #1210


Tod Granicher
Project Manager





**Sequoia
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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: 9701550-02	Sampled: 01/09/97 Received: 01/10/97 Analyzed: 01/16/97 Reported: 01/20/97
QC Batch Number: GC011697BTEX01A		
Instrument ID: GCHP01		

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:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Tod Granicher
Project Manager



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: 9701550-03	Sampled: 01/09/97 Received: 01/10/97 Analyzed: 01/16/97 Reported: 01/20/97
Attention: Jessica Nelligan		

QC Batch Number: GC011697BTEX01A
Instrument ID: GCHP01

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:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

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

Work Order #: 9701550 01-03

Reported: Jan 20, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011697BTEX01A	GC011697BTEX01A	GC011697BTEX01A	GC011697BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	970138005	970138005	970138005	970138005
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/16/97	1/16/97	1/16/97	1/16/97
Analyzed Date:	1/16/97	1/16/97	1/16/97	1/16/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	32
MS % Recovery:	100	100	100	107
Dup. Result:	9.9	10	10	31
MSD % Recov.:	99	100	100	103
RPD:	1.0	0.0	0.0	3.2
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK011497A	BLK011497A	BLK011497A	BLK011497A
Prepared Date:	1/16/97	1/16/97	1/16/97	1/16/97
Analyzed Date:	1/16/97	1/16/97	1/16/97	1/16/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.7	9.6	9.7	30
LCS % Recov.:	97	96	97	100

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

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.

SEQUOIA ANALYTICAL


Tod Granicher
Project Manager

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

9701550.PPP <1>





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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: 01/10/97

Lab Proj. ID: 9701550

Reported: 01/20/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 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

CLIENT NAME:
REC. BY (PRINT)

PEG
LLim

WORKORDER:
DATE OF LOG-IN:

9701550
1/13/97

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s)

Present / Absent
Intact / Broken*

2. Custody Seal #:

Put in Remarks
Section

3. Chain-of-Custody

Present / Absent*

4. Traffic Reports or
Packing List:

Present / Absent

5. Airbill:

Airbill / Slicker
Present / Absent

6. Airbill #:

7. Sample Tags:

Present / Absent

Sample Tags #s:

Listed / Not Listed
on Chain-of-Custody

8. Sample Condition:

Intact / Broken* /
Leaking*

9. Does information on
custody reports, traffic
reports and sample
tags agree?

Yes / No*

10. Proper Preservatives
used:

Yes / No*

11. Date Rec. at Lab:

1/10/97

12. Time Rec. at Lab:

1527

13. Temp Rec. at Lab:

10°C

LAB
SAMPLE
#

DASH
#

CLIENT IDENTIFICATION

CONTAINER
DESCRIPTION

SAMPLE
MATRIX

DATE
SAMP.

REMARKS:
CONDITION (ETC.)

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EFFI

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1

LLim

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

Consultant Company: Pacific Env. Group, Inc Project Name: 310-127.SA
 Address: 2025 GATEWAY PL. 21440 UNOCAL Project Manager: TINA Barry
 City: SAN JOSE State: CA Zip Code: 95110 AFE #:
 Telephone: (408) 441-7500 FAX #: (408) 441-7539 Site #, City, State: 115367 San Leandro
 Report To: Jessica Nelligan Sampler: Don Watson QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days
 Time: 2 Work Days 1 Work Day 2-8 Hours
 CODE: Misc. Detect. Eval. Remed. Demol. Closure
 Drinking Water Waste Water Other
 Analyses Requested: 9701550

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested										Comments									
1. InFl	1/10/97 9:00	H ₂ O	3	VOA	1	X																			
2. Mid-2					2	X																			
3. EFF1					3	X																			
4.																									
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									

1/10/97 5:15 1400

Relinquished By: <u>Don Watson</u>	Date: <u>1/10/97</u>	Time: <u>17:00</u>	Received By: <u>John Jan</u>	Date: <u>1/10/97</u>	Time: <u>1400</u>
Relinquished By: <u>John Jan</u>	Date: <u>1/10/97</u>	Time: <u>1527</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>John</u>	Date: <u>1/10/97</u>	Time: <u>1527</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. Marcin Signature: M. Alvarado Company: U.C. Date: 1/21/97

Pink - Client
 Yellow - Laboratory
 White - Laboratory