



PACIFIC  
ENVIRONMENTAL  
GROUP INC.

RECEIVED

11:35 am, Jun 17, 2009

Alameda County  
Environmental Health

Date: April 8, 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>Corrected Monthly Discharge Report (2/19/97 - 3/13/97)</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 (3/6/97)</u>
<u>1</u>	<u>Field data sheets from 3/13/97 site visit</u>
	<b>(Re: 76 Station 5367, 500 Bancroft Avenue, San Leandro)</b>

For your:  Use  
 Approval  
 Review  
 Information

Comments: Attached is the corrected monthly discharge report for the site referenced above, along with tables providing operational and analytical data, and the certified analytical results and data sheets for samples taken 3/6/97. Please note that the groundwater system was shut down March 13, 1997. Unless otherwise instructed, we will discontinue monthly sewer reports. Please call if you have any questions.

Suzanne McClurkin-Nelson  
Staff Scientist

CC: Ms. TINA BERRY, 76 PRODUCTS COMPANY

3111275A\MSR0397

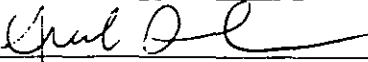
MONTHLY DISCHARGE REPORT  
UNOCAL GROUNDWATER CLEAN-UP PROJECT

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: 02/19/97 to 03/13/97.

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: 22 days

Total monthly discharge: 244,770 U. S. Gallons

Signature of Certifying Official: 

Printed Name of Official: Andrew D. Lehane

Title: Project Engineer, Pacific Environmental Group, Inc.

Date: April 4, 1997

Attach a brief statement summarizing the months operations.

Site visits were made on March 6 and 13, 1997. The system was shut down on March 13, 1997 in response to a decision to deactivate the soil vapor extraction system for which the groundwater system acted as a dewatering mechanism. Until such time as the groundwater system is reactivated, we will discontinue monthly sewer reports, with your approval.

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
03/06/97	314,460	192,190	584,571	8.9	12,813
03/13/97 d	367,040	52,580	637,151	5.2	7,511
<b>REPORTING PERIOD:</b>				<b>02/19/97 - 03/13/97</b>	
<b>PERIOD VOLUME DISCHARGED:</b>				<b>244,770</b>	
<b>PERIOD DAYS DISCHARGED:</b>				<b>22</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).					
d. GWE and SVE systems deactivated on 3/13/97.					

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
03/06/97	36,000	91	1,300	1,600	7,800
<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
03/06/97	<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
03/06/97	<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.					



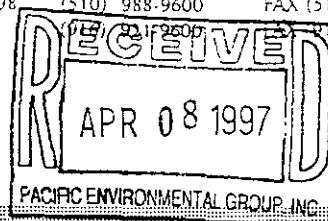
Sequoia  
Analytical

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

Client Proj. ID: 311-127.5A/ 5367/ San Leandro  
Sample Descript: INFL  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9703466-01

Sampled: 03/06/97  
Received: 03/07/97  
Analyzed: 03/13/97  
Reported: 03/16/97

Attention: Jessica Nelligan

QC Batch Number: GC031397BTEX02A  
Instrument ID: GCHP2

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	36000
Benzene	50	91
Toluene	50	1300
Ethyl Benzene	50	1600
Xylenes (Total)	50	7800
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	89

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Tod Granicher  
Project Manager





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Analytical

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

Client Proj. ID: 311-127.5A/ 5367/ San Leandro  
Sample Descript: MID-2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9703466-02

Sampled: 03/06/97  
Received: 03/07/97  
Analyzed: 03/12/97  
Reported: 03/16/97

Attention: Jessica Nelligan

QC Batch Number: GC031297BTEX21A  
Instrument ID: GCHP21

**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	99

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

SEQUOIA ANALYTICAL - ELAP #1210

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



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

Client Proj. ID: 311-127.5A/ 5367/ San Leandro  
Sample Descript: EFFL  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9703466-03

Sampled: 03/06/97  
Received: 03/07/97  
Analyzed: 03/12/97  
Reported: 03/16/97

QC Batch Number: GC031297BTEX21A  
Instrument ID: GCHP21

**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	96

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

**SEQUOIA ANALYTICAL - ELAP #1210**

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



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Analytical

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

Client Project ID: 311-127.5A / 5367 / San Leandro  
Matrix: LIQUID

Work Order #: 9703466 01-03

Reported: Apr 5, 1997

### QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031297BTEX21A	GC031297BTEX21A	GC031297BTEX21A	GC031297BTEX21A
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 #:	970315301	970315301	970315301	970315301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/97	3/12/97	3/12/97	3/12/97
Analyzed Date:	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.9	10	10	30
MS % Recovery:	99	100	100	100
Dup. Result:	10	11	11	35
MSD % Recov.:	100	110	110	117
RPD:	1.0	9.5	9.5	15
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK031297A	BLK031297A	BLK031297A	BLK031297A
Prepared Date:	3/12/97	3/12/97	3/12/97	3/12/97
Analyzed Date:	3/12/97	3/12/97	3/12/97	3/12/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.5	9.9	10	32
LCS % Recov.:	95	99	100	107

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

9703466.PPP <1>





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

Client Project ID: 311-127.5A / 5367 / San Leandro  
Matrix: LIQUID

Work Order #: 9703466 01-03

Reported: Apr 5, 1997

### QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031397BTEX02A	GC031397BTEX02A	GC031397BTEX02A	GC031397BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. MirafTAB	A. MirafTAB	A. MirafTAB	A. MirafTAB
MS/MSD #:	970336507	970336507	970336507	970336507
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/13/97	3/13/97	3/13/97	3/13/97
Analyzed Date:	3/13/97	3/13/97	3/13/97	3/13/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.5	9.4	9.5	30
MS % Recovery:	95	94	95	100
Dup. Result:	9.3	9.2	9.3	29
MSD % Recov.:	93	92	93	97
RPD:	2.1	2.2	2.1	3.4
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK031397A	BLK031397A	BLK031397A	BLK031397A
Prepared Date:	3/13/97	3/13/97	3/13/97	3/13/97
Analyzed Date:	3/13/97	3/13/97	3/13/97	3/13/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.0	9.1	9.3	29
LCS % Recov.:	90	91	93	97

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

SEQUOIA ANALYTICAL

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

9703466.PPP <2>



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

Client Proj. ID: 311-127.5A/ 5367/ San Leandro

Received: 03/07/97


Lab Proj. ID: 9703466

Reported: 03/16/97

## LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 8 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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG  
 REC. BY (PRINT) PH

WORKORDER: 9703466  
 DATE OF LOG-IN: 3/11/97

CIRCLE THE APPROPRIATE RESPONSE

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A-C	INFL	3/045	Li	3/4	
2	↓	MID-2	↓	↓	↓	
3	↓	EFFL	↓	↓	↓	
<del>3-7-97</del>						

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 / Sticker Present /  Absent

6. Airbill #: \_\_\_\_\_

7. Sample Tags:  Present / Absent

Sample Tags #:  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: 3/7/97

12. Time Rec. at Lab: 1233

13. Temp Rec. at Lab: 7°C

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

Consultant Company: <u>Pacific ENV Group Inc</u>		Project Name: <u>311-127.5A</u>	
Address: <u>2025 GATEWAY DR. Santa 440</u>		UNOCAL Project Manager: <u>TINA Berry</u>	
City: <u>SAN JOSE</u>	State: <u>CA</u>	Zip Code: <u>95110</u>	AFE #: <u>876920042</u>
Telephone: <u>(408) 441-7500</u>		FAX #: <u>(408) 441 7539</u>	
Report To: <u>Jessica Nelligan</u>		Sampler: <u>Don Waterman 64</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 Time: <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Drinking Water <input checked="" type="checkbox"/> Waste Water <input type="checkbox"/> Other	Analyses Requested: <u>9703466</u>
CODE: <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input checked="" type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure		

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH/STEX										Comments			
1. <u>INF1</u> ✓	<u>3/6/97 11:45</u>	<u>H2O</u>	<u>3</u>	<u>VOA</u>	<u>1</u>	X													
2. <u>MDO-2</u> ✓	↓	↓	↓	↓	<u>2</u>	↓													
3. <u>EFF1</u> ✓	↓	↓	↓	↓	<u>3</u>	↓													
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

Relinquished By: <u>Don Waterman</u>	Date: <u>3/6/97</u>	Time: <u>15:15</u>	Received By: <u>Julie Warren</u>	Date: <u>3/6/97</u>	Time: <u>15:15</u>
Relinquished By: <u>Julie Warren</u>	Date: <u>3/7/97</u>	Time: <u>11:23</u>	Received By: <u>[Signature]</u>	Date: <u>3/7/97</u>	Time: <u>11:23</u>
Relinquished By: <u>[Signature]</u>	Date: <u>3/7/97</u>	Time: _____	Received By Lab: <u>[Signature]</u>	Date: <u>3/7/97</u>	Time: <u>1233</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: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client

Yellow - Laboratory

White - Laboratory

# FIELD SERVICES REQUEST

## SITE INFORMATION FORM

### Identification

Project # 311-127.5A  
Station ID 5367  
Site Address: 500 Bancroft Ave  
San Leandro  
Lab: Sequoia  
County3rd : \_\_\_\_\_  
Project Manager: Andrew Lehane  
Requester: Jessica Nelligan  
Client: 76 Products  
Client P.O.C: Tina Berry  
Date of Request: March 11, 1997

### Project Type

Operation & Maintenance  
 Sampling  
 1st time visit  
 Quarterly  
 1st  2nd  4th  
 Monthly  
 Semi-Monthly  
 Weekly  
 One time event  
 Other:  
Ideal field date: March 13

### Site Check Appropriate Category

In Budget Visit  
 Out of Budget Site Visit

Budget Hours: 2  
Actual Hours: (3) 2  
Mob de Mob: 1

### Site Safety Concerns

STANDARD

### Field Tasks General Description

1. Take final system readings.
2. Shut down GWE and SVE systems.
3. Secure area.

### Comments, remarks from field staff

Took final readings from systems. Sprayed WD-40 into blower before shutting off.  
\* Pulled pumps from MW-2 and MW-3 put in treatment compound.

Completed By: Don W. [Signature]

Date: 3/13/97

Pacific Environmental Group, Inc.

Work Order # 5367

## FIELD SERVICES / ROUTINE O&M REQUEST

**Identification**

Project # 311-127.5A  
 Station # 5367  
 Site Address: 500 Bancroft Ave @  
                   Dowling  
                   San Leandro  
 County: Alameda  
 Project Manager: ADL  
 Requestor: Jessica Nelligan  
 Client: 76 Products  
 Client P.O.C.: Tina Berry  
 Revision Date: January 30, 1997  
 Laboratory: Sequoia

Request Frequency: [Semi-Monthly]

### Site Remedial Technologies:

Groundwater Extration (GWE)     Soil Vapor Extraction (SVE)     Air Sparging (AS)     Bio-Augmentation (BIO)

Complete attached Data Sheets as prescribed in the following table:

### Scheduling Table

Data Sheet Section(s) / Part(s)	To be Completed	Budgeted Hrs	Actual Hrs	Mob-de Mob	Completed
SVE(A, B, C, D)	week 1 †				
SVE(A, B, C, D, E, F)	week 3				
GWE(A, B, C, D)	monthly				
SVE(G, H, I) GWE(G,H)	quarterly †				
	semi-annually				

† = sampling to be performed

### Definition of frequencies:

semi-monthly = once every other week on weeks 1 & 3, when pulse mode is ON  
 monthly = first week of the month (day 1 or 2 preferred)  
 quarterly = once every quarter in months 1, 4, 7, 10 on week 1

### Field Technician Response:

Completed by: Don Wataupung  
 Arrival time: 12:30  
 Sample this visit? No

Date: 3/13/97  
 Departure time: 3:00  
 Engineer contacted? No

**Oil Vapor Extraction & Treatment System**  
 76 Products Service Station #5367  
 500 Bancroft Avenue @ Dowling  
 San Leandro, CA  
 310-127.5A

**PART A: SYSTEM DATA**

Pulsed Mode: Turn **ON / OFF** Monthly (at week 1)

System on upon arrival? Yes (if no, specify reason in comments)

HOUR METER (hrs)	10263	CONTENTS OF KNOCKOUT BARREL	Empty
ELECTRIC METER (kW-hrs)	25584		

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
% DILUTION VALVE OPEN	25%	closed
% RECIRCULATION VALVE OPEN	50%	closed
MANIFOLD AIR FLOW (before dilution) (Δ P. inches of water)	NA	0
TOTAL SYSTEM AIR FLOW (after dilution) (ΔP. inches of water)	.50	0
BLOWER VACUUM (inches of water)	65" H <sub>2</sub> O	0

**PART B: COMMENTS** Turned system OFF

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**When not performing GWE activities, use this space to note GWE operating conditions.**

**GWE system on upon arrival?**

**If no, specify reason.**

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**GWE Totalizer Reading:**

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**PART C: SYSTEM FID READINGS**

READING (ppmv)	WC/WOC/DF	
	before adjustments	after adjustments
INFLUENT (before dilution)	/	
INFLUENT (after dilution)		
PRIMARY GAC EFFLUENT		
SYSTEM EFFLUENT		
BACKGROUND		
FIELD INSTRUMENT USED:		
LAST CALIBRATED:		

**PART D: SAMPLING I**

SAMPLE	ANALYSIS	COMPLETED
INFLUENT (semi-monthly)	TPH-g/BTEX	/
MID (monthly)	TPH-g/BTEX	
EFFLUENT (semi-monthly)	TPH-g/BTEX	

**PART E:  
SAMPLING II**

WELLS (MW-1, MW-2, MW-3)	TPH-g/BTEX	/
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**PART F: WELL DATA**

WELL	VALVE POSITION <i>9/5 Open</i>		FID (ppmv)			VAC/PRESSURE ("H <sub>2</sub> O)		FLOW			
	INITIAL	FINAL	DILUTION FACTOR USED	WC	WOC	@ MANIFOLD	@ WELL	Δ P ("H <sub>2</sub> O)	PIPE SIZE		
MW-1	100%	OFF	/	/	/	40" H <sub>2</sub> O	40" H <sub>2</sub> O	NA	/		
MW-2	↓	↓						↓		↓	/
MW-3	↓	↓						↓		↓	/



**PART G: SVE INFLUENCE**

SVE WELL	APPLIED VACUUM (inches of water)	MONITORING WELL	MEASURED VACUUM (inches of water)
MW-9	/	MW-10	/
MW-8		MW-4	
MW-3		MW-2	
		MW-3	
		MW-7	

**PART H: SYSTEM MAINTENANCE I  
CHECK LIST**

DRIVE BELTS	/	BLOWER OIL	/
INLINE FILTER		LEAKS	
RATTLES		EXCESSIVE NOISE	
INDICATOR LIGHTS			

**PART I: SYSTEM MAINTENANCE II**

CHANGE BLOWER OIL	/	CHANGE DRIVE BELTS	/
GREASE LINKAGE AND BEARINGS		TEST ALARM SWITCHES	

Groundwater Extraction & Treatment System  
 Unocal Service Station 5367  
 500 Bancroft @ Dowling  
 San Leandro, CA  
 310-127.5A

System Description:

Groundwater Pumps				
Well	Type	Size	Control	Set Depth (TOB)
MW-2	electric	2.5 hp. 110/220V, 1Φ, 60 Hz		
MW-3	electric	2.5 hp. 110/220V, 1Φ, 60 Hz		

Carbon Vessels: 2 Cetco 1,000 lbs vessels  
 Filter: Rosedale 8-30

Transfer Pump: 1.5 hp. 110/220V, 1Φ, 60 Hz  
 oil/water separator: N/A

PART A: SYSTEM DATA

System on upon arrival? yes (if no, specify reason in comments)

MEASUREMENT	ON ARRIVAL	ON DEPARTURE
TOTALIZER (gallons)	0367040	0367040
FILTER INLET PRESSURE (psig)	12	0 (ideal range < 30 psig)
CARBON #1 INLET PRESSURE (psig)	6 psi	0
CARBON #2 INLET PRESSURE (psig)	2 psi	0 (ideal range 12 psig)
DISCHARGE PRESSURE (psig)	0	0 (ideal range 0 psig)
TRANSFER PUMP FLOWRATE (gpm)	8 psi	0 (ideal range 10 gpm)
% RESTRICTION VALVE OPEN	100%	closed (ideal range 100 % open)

PART B: COMMENTS

Turned system off, pulled pumps in MW-2 & MW-3  
 put pumps & pipe in treatment compound.  
 Put 4" J-cap on wells to seal.

PART C: WELL DATA

WELL	DTW (TOB)	TOTALIZER (gallons)	FLOWRATE (gpm)	COMMENTS/ ADJUSTMENTS
MW-2	23.7'	0407220	OFF	closed
MW-3	23.5'	0317930	OFF	Value

PART D: SAMPLING & READINGS I

SAMPLE	ANALYSIS	COMPLETED
Influent	TPH-gasoline/BTEX compounds	/
MID 2	TPH-gasoline/BTEX compounds	
Effluent	TPH-gasoline/BTEX compounds	

PART G: SYSTEM MAINTENANCE I

NUMBER OF SPARE FILTERS ON SITE?	/	CHANGE FILTERS? (if necessary)	/
DRAIN COMPRESSOR			

PART H: SYSTEM MAINTENANCE II

CLEAN TOTALIZERS	/	TEST ALARM SWITCHES	/
BACKFLUSH CARBON VESSELS		CALIBRATE LEL	
CHANGE COMPRESSOR OIL			