

15/13/04

January 31, 1996 Project 310-058.5A

Ms. Tina Berry Unocal Corporation 2000 Crow Canyon Place, Suite 400 San Ramon, California 94583

Re: Quarterly Remedial Performance Summary - Fourth Quarter 1995
Unocal Service Station 5760
376 Lewelling Boulevard at Usher Street
San Lorenzo, California

Dear Ms. Berry:

This letter presents the results of the fourth quarter 1995 sampling events conducted by Pacific Environmental Group, Inc. (PACIFIC) at the site referenced above. Attachment A presents the <u>remedial performance summary</u>, which includes hydrocarbon mass removal and key operating parameters. Certified analytical reports and chain-of-custody documentation are presented as Attachment B, and field data sheets are included as Attachment C. Please contact Suzanne McClurkin-Nelson if you have any further questions.

Sincerely,

Pacific Environmental Group, Inc.

Steven D. Clark

Project Hydrogeologist

HG 167

Andrew D. Lehane Project Engineer

Attachments:

Attachment A - Remedial Performance Summary - Fourth Quarter 1995

Attachment B - Certified Analytical Reports and Chain-of-Custody

Documentation

Attachment C - Field Data Sheets

cc: Mr. Richard Hiett, Regional Water Quality Control Board - S.F. Bay Region Ms. Amy Leech, Alameda County Health Care Services

3100585A\4Q95QPR.DOC



January 15, 1996 Project 310-058.3B

Mr. Richard Hiett Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Re: Unocal Corporation

Quarterly Summary Report

Fourth Quarter 1995

Dear Mr. Hiett:

As directed by Ms. Tina Berry of Unocal Corporation, Pacific Environmental Group, Inc. is forwarding the quarterly summary report for the following location:

Service Station

Location

5760

376 Lewelling Boulevard, San Lorenzo

If you have questions or comments, please do not hesitate to contact our office at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.

Joseph Muzzio Project Geologist

Enclosure

cc: Ms. Tina Berry, Unocal Corporation
Ms. Amy Leech, Alameda County Environmental Health Care Services

Quarterly Summary Report Fourth Quarter 1995

Unocal Service Station 5760 376 Lewelling Boulevard San Lorenzo, California

City/County ID #: None

County: Alameda

BACKGROUND

The underground storage tanks were removed and replaced in November 1987. Currently there are nine monitoring wells on-site. Groundwater monitoring and sampling of wells began in February 1988. A remedial action plan was submitted during the third quarter 1994. A groundwater extraction system and soil vapor extraction system was installed in August and September 1995.

RECENT QUARTER ACTIVITIES

Quarterly groundwater monitoring and sampling were conducted in October 1995. Design of the soil vapor and groundwater extraction and treatment system was completed. System start-up began on October 4, 1995, and a report was issued to the Bay Air Air Quality Management District documenting the start-up activities on November 6 1995.

NEXT QUARTER ACTIVITIES

Groundwater monitoring and sampling for the first quarter 1996 will be performed. Operation of soil vapor and groundwater extraction and treatment system will continue.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? No.

Free product delineated? Yes.

Amount of groundwater contaminant recovered this quarter? Approximately 40 pounds.

Soil remediation in progress? Yes.

Anticipated start? October 1995.

Anticipated completion date? Unknown.

Dissolved/free product remediation in progress? Yes.

Anticipated start? October 1995.

Anticipated completion? Unknown.

CONSULTANT: Pacific Environmental Group, Inc.

ATTACHMENT A

REMEDIAL PERFORMANCE SUMMARY FOURTH QUARTER 1995

ATTACHMENT A

REMEDIAL ACTION PERFORMANCE SUMMARY: FOURTH QUARTER 1995 GROUNDWATER DEWATERING SYSTEM

Site Name: Unocal Service Station 5760

Site Address: 376 Lewelling Boulevard, San Lorenzo, CA

Abatement Equipment: Granular-Activated Carbon Vessels

Start-Up Date: 10/18/95

Permitting Agency: Oro Loma Sanitary District

Permit No.: 024

Permit Expiration Date: 6/30/96

Estimated Shutdown Date: Unknown

REMEDIAL OBJECTIVES

Dewatering to enhance soil vapor extraction

o Regulatory Compliance

OPERATIONAL DATA (Fourth Quarter 1995)

Treatment System Data	October	November	December		
Operational Status	Start-Up	Operational	Operational		
Groundwater Volume Pumped (gals)	3,964	3,711	7,280		

Table 1 Page A-3

Treatment System Analytical Data Summary EPA Method 8020 Analyses

INFLUENT	EFFLUENT
Detected	ND
	*

Table 2 Page A-4

Table 1 Page A-3

Table 1 Page A-3

Table 2 Page A-4

Table 2 Page A-4

Table 1 Page A-3

Table 1 Page A-3

TPH and Benzene Summary

Influent TPPH-gasoline (µg/L) Influent Benzene (µg/L) Effluent TPPH-gasoline (µg/L) Effluent Benzene (µg/L)

Mass TPPH-gasoline Removed (lbs)
Mass Benzene Removed (lbs)

October	November	December	_
33,000	15,000	1,100	
480	190	16	
ND	ND	ND	
ND	ND	ND	Curnulative
1.1	0.7	0.5	2.3
0.02	0.01	, 0.00	0.03

PERFORMANCE EVALUATION

Dewatering

Groundwater system is being used to enhance soil vapor extraction by exposing additional soils in the capillary fringe. The system has also provided some mass removal as well.

Regulatory Compliance

During the fourth quarter 1995, the groundwater dewatering and treatment system operated in compliance with all discharge limitations set forth by Oro Loma Sanitary District Permit 024.

ACTIONS/RECOMMENDATIONS

o

Pumps are currently out of service. Repairs will be completed during the first quarter of 1996.

NOTES:

TPPH = Total purgeable petroleum hydrocarbons

ND = Not detected above detection limit

gals = Galions

μg/L = Micrograms per liter

bs = Pounds

Note: When appropriate, tabulated data is followed by associated graphical presentation.

ATTACHMENT A (continued)

REMEDIAL ACTION PERFORMANCE SUMMARY: FOURTH QUARTER 1995 SOIL-BASED REMEDIAL SYSTEM

Site Name: Unocal Service Station 5760

Site Address: 376 Lewelling Boulevard, San Lorenzo, CA

Abatement Equipment: 2-1,000 lb vapor-phase carbon cannisters

Start-Up Date: 10/18/95

Permitting Agency: BAAQMD

ATC No.: 14994

ATC Expiration Date: 10/11/97

Estimated Shutdown Date: Unknown

REMEDIAL OBJECTIVES

- o Migration Control
- o Mass Removal
- Regulatory Compliance

OPERATIONAL DATA (Second Quarter 1995)

Treatment System Data

Operational Status

Average System Flow Rate (scfm)

October	November	December
Start-Up	Operational	Operational
45	40	34

Table 3 Page A-5

Treatment System Analytical Results Summary

EPA Method 8020 Analyses

INFLUENT	EFFLUENT
Detected	ND

TPH-g and Benzene Summary

Influent TPH-gasoline (ppmv)
Influent Benzene (ppmv)

Effluent TPH-gasoline (ppmv) Effluent Benzene (ppmv)

Mass TPH Removed (lbs)

Mass Benzene Removed (lbs)

Octo	ber	November	December	_
149	45	38	ND	
2.4	0.49	0.24	0.04	
ND	ND	, ND	ND	
ND	- ND	ND	ND	Cumulative
	2.3	28.2	7.8	38.3
	0.03	0.21	0.04	0.28

Table 3 Page A-5
Table 4 Page A-6
Table 4 Page A-6
Table 3 Page A-5
Table 3 Page A-5
Table 3 Page A-5

REMEDIAL ACTION PERFORMANCE EVALUATION

Migration Control

The soil vapor extraction system has recovered hydrocarbons in the soil column, thus

reducing the potential for hydrocarbon migration.

Mass Removal

Mass removal rates have decreased since startup, reflecting the site strategy of performing

soil vapor extraction for approximately six months to affect most of the mass removal.

Regulatory Compliance

During the fourth quarter 1995, the soil vapor extraction system operated in compliance

with all BAAQMD permit conditions.

ACTIONS/RECOMMENDATIONS

 Continue to operate the soil vapor extraction system and optimize groundwater system to enhance soil vapor extraction performance.

NOTES:

ND = Not detected above detection limit

scfm = Standard cubic feet per minute

ppmv = Parts per million by volume

lbs = Pounds

Note: When appropriate, tabulated data is followed by associated graphical presentation.

Table 1 Groundwater Extraction System Performance Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

					TP	PH as Gase	oline		Benzene	
Sample ID	Date Sampled	Temp	Totalizer Reading (gallons)	Average Flow Rate (gpm)	Influent Concen- tration (µg/L)	Removal Rate (lbs/day)	Removed To Date (lbs)	Influent Concen- tration (µg/L)	Removal Rate (lbs/day)	Removed To Date (lbs)
INFL	10/18/95 a	NM	76	N/A	NS	N/A	0.0	NS	N/A	0.00
INFL	10/30/95	NM	4,040	0.2	33,000	0.09	1.1	480	0.0013	0.00
INFL	11/30/95	NM	7,751	0.1	15,000	0.02	1.8	190	0.0003	0.03
INFL	12/27/95	64.2	15,031	0.2	1,100	0.02	2.3	16	0.0002	0.03
REPORTING PERIOD: TOTAL GALLONS EXTRACTED: PERIOD GALLONS EXTRACTED: TOTAL POUNDS TPPH-GASOLINE REMOVED: TOTAL GALLONS TPPH-GASOLINE REMOVED: TOTAL POUNDS BENZENE REMOVED: TOTAL GALLONS BENZENE REMOVED: PERIOD POUNDS TPPH-GASOLINE REMOVED: PERIOD POUNDS BENZENE REMOVED:					(All 180	95 - 12/27/96 14,955 14,955 2.3 0.4 0.03 0.00 2.3 0.03				
TPPH Temp deg F gpm µg/L lbs NM N/A	E FLOW RAT Total purgea Temperature Degrees Fah Gallons per r Parts per bill Pounds Not measure Not available Not sampled	renheit ninute ion d or not appi	2	oons	a. GWEs	ystem startu	0.1 p on October *	18, 1995.	v	

Mass removed is an approximation calculated using averaged concentrations.

Table 2 Groundwater Treatment System Analytical Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

			BTEX Co	mpounds	Permit Compliance Parameters			
-	1			Ethyl-		17		
Date	TPPH	Benzene	Toluene	benzene	Xylenes	COD	TSS	pH
Sampled	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(units)
Influent Sa	mples							
10/30/95	33,000	480	1,400	900	7,100	N/A	N/A	N/A
11/30/95	15,000	190	310	210	3,700	N/A	N/A	N/A
12/27/95	1,100	16	23	<2.0	300	N/A	N/A	N/A
Effluent Sa	mples							
10/04/95	<50	<0.50	<0.50	<0.50	<0.50	<20	<1.0	8.89 a
10/30/95	-50	< 0.50	<0.50	<0.50	<0.50	NS	NS	NS
11/30/95	<50	<0.50	< 0.50	<0.50	<0,50	NS	NS	NS
12/27/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	7.05 a
ТРРН	= Total purge	able petroleu	m hydrocarb	ons				
μg/L	= Microgram	s per liter						-4
mg/L	= Milligrams	per liter						
N/A	= Not applica	ble						
NS	= Not sample	eď						
<	= Denotes ar	ny potential co	ncentrations	fell below the	shown detect	tion limit for the	e analysis.	
a.	pH reading w	as measured	by field instr	uments, not t	y laboratory a	nalysis.		

Table 3 Soil Vapor Extraction System Performance Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

					TPP	H as Gasol	ine		Benzene	
Sample ID	Date Sampled	Days Opera- tional (t)	Hourmeter Reading (hours)	Flow Rate (scfm)	Influent Concen- tration (ppmv)	Removal Rate (lbs/day)	Removed To Date (lbs)	Influent Concen- tration (ppmv)	Removal Rate (lbs/day)	Removed To Date (lbs)
INFL	10/18/95 a	0.0	0.00	40	87	1.33	0.0	0.95	0.012	0,00
INFL	10/19/95	0.2	5.50	40	149	2.26	0.4	2.4	0.030	0.00
INFL	10/20/95	1.2	33,95	55	45	0.94	2.3	0.49	0.008	0.03
INFL	11/30/95	37.2	927.30	40	38	0.58	30.5	0.24	0.003	0.24
INFL	12/27/95	27.1	1,576.71	34	ND	0.00	38.3	0,04	0,000	0.28
TOTAL DA PERIOD D TOTAL PO TOTAL PO TOTAL G PERIOD P PERIOD P PERIOD P	NG PERIOD: AYS OF OPERA DAYS OF OPERA DUNDS TPPH-OUNDS BENZE ALLONS BENZE ALLONS BENZE OUNDS TPPH-OUNDS BENZE OUNDS BENZE OUNDS BENZE EVERAGE FLOV	ATION ASOLINE GASOLIN NE REMO ENE REM GASOLIN ENE REMO V RATE (I	E REMOVED: OVED: E REMOVED: DVED: schn):				8 - 12/27/95 85.7 65.7 38.3 6.3 0.28 0.04 38.3 0.28 52 94%			
t i	 Total purgeable Time of period Standard cubic Parts per millio 	since last feet per n	sampling ninute	5	a. SVE syste	em start-up o	on October 1	5, 1995 (carbo	on)	Ö.

Table 4 Soil Vapor Extraction System Emission Data

Unocal Service Station 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

			I	PPH as Gasolir	le	Benzene			
Sample ID	Date Sampled	Flow Rate (scfm)	Effluent Concen- tration (ppmv)	Destruction Efficiency (percent)	Emission Rate (lbs/day)	Effluent Concen- tration (ppmv)	Destruction Efficiency (percent)	Emission Rate (lbs/day)	
EFFL	10/18/95	a 40	ND	97.3	0.04	ND	97.0	0.0004	
EFFL	10/19/95	40	ND	98.4	0.04	ND	98.8	0.0004	
EFFL	10/20/95	55	ND	94.7	0.05	ND	94.1	0.0005	
EFFL	11/30/95	40	ND	93.8	0.04	ND	87.8	0.0004	
EFFL	12/27/95	34	ND	N/A	0.03	ND	28.6	0.0003	

TPPH = Total purgeable petroleum hydrocarbons

scfm = Standard cubic feet per minute

ppmv = Parts per million by volume, converted from micrograms per liter

lbs ≈ Pounds

ND = Not detected above detection limit

N/A = Not applicable or not available

a. SVE system start-up on October 18, 1995 (carbon)

Emission calculations for non-detected concentrations are calculated using the detection limit.

Destruction efficiency [%] = [(1 - (effluent concentration/influent concentration) * 100)]

Figure 1 Groundwater Extraction System Mass Removal Trend

Unocal Service Station 5760 376 Lewelling Bourtvard at Usher Street San Lorenzo, California

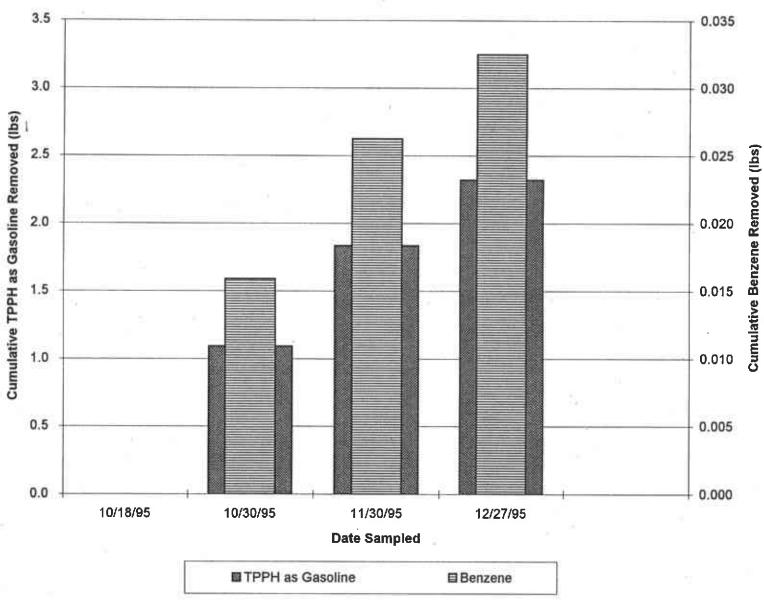


Figure 2
Groundwater Extraction System Hydrocarbon Concentrations

Unocal Service Station 5760 376 Lewelling Bourlvard at Usher Street San Lorenzo, California

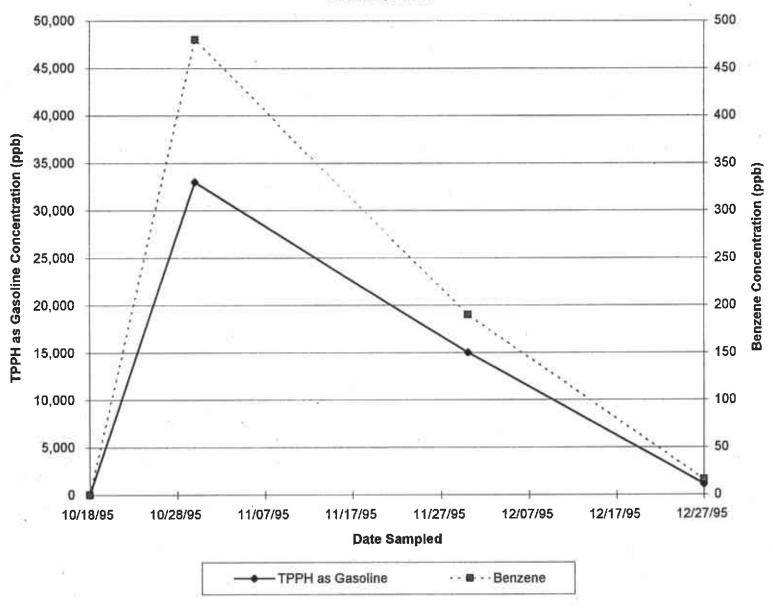


Figure 3
Soil Vapor Extraction System Mass Removal Trend

Unocal Bulk Terminal 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California

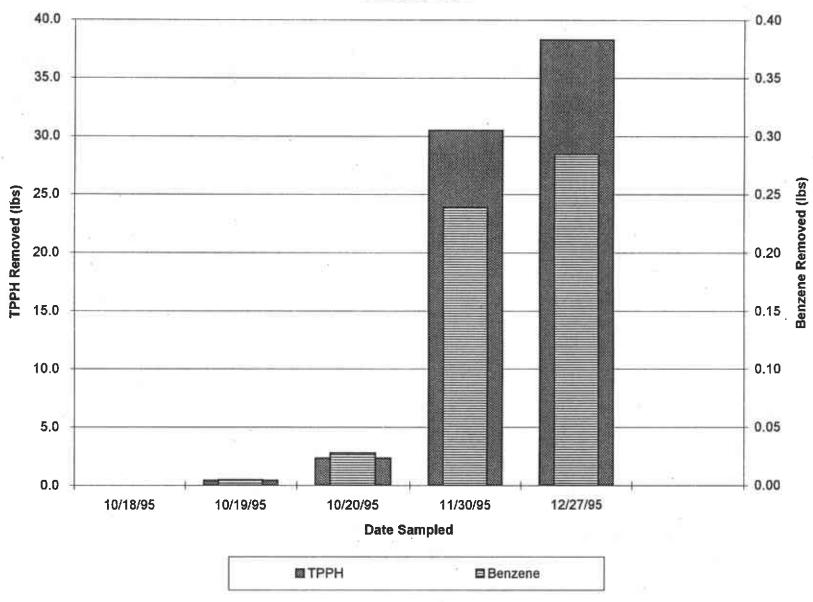
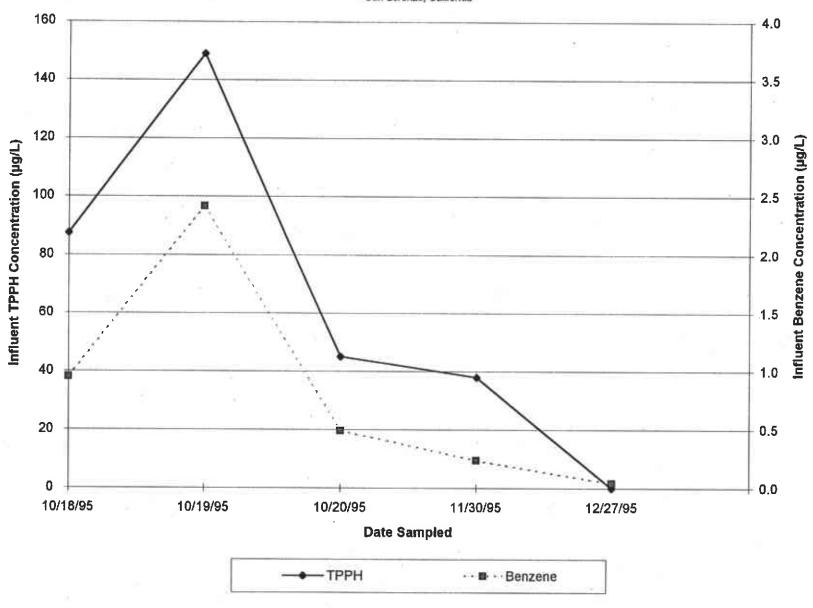


Figure 4
Soil Vapor Extraction System Hydrocarbon Concentrations

Unocal Bulk Terminal 5760 376 Lewelling Boulevard at Usher Street San Lorenzo, California



ATTACHMENT B

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



680 Chesapeake Drive 404 N. Wiget Lane

Redwood City, CA 94063 Walnut Creek, CA 94598 819 Striker Avenue, Suite 8 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 FAX (415) 364-9233 FAX (510) 988-9673

(916) 921-9600 PACIFIC ENVIRONMENTAL CROUP, INC

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

Client Proj. ID:

310-058.3A/5760,San Lorenzo

Sample Descript: Infl

Matrix: AIR

Analysis Method: 8015Mod/8020

Lab Number: 9510D77-01

Sampled: 10/18/95 Received: 10/19/95

Analyzed: 10/20/95 Reported: 10/31/95

Attention: Maree Doden

C Batch Number: GC102095BTEX02A istrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection ug.		Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: Unidentified HC	0. 0.	0	3.3 4.7 7.5 23 Gas
Surrogates Trifluorotoluene	Control 70	Limits % %	Recovery 126

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

SEQUOIA ANALYTICAL

3rucie Fletcher

³roject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

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

Pacific Environmental Group 2025 Gateway Place, Suite 440

310-058.3A/5760,San Lorenzo Client Proj. ID:

Sampled: 10/18/95 Received: 10/19/95

San Jose, CA 95110

Attention: Maree Doden

Sample Descript: Effl Matrix: AIR

Analysis Method: 8015Mod/8020 Lab Number: 9510D77-02

Analyzed: 10/20/95 Reported: 10/31/95

QC Batch Number: GC102095BTEX02A

nstrument ID: GCHP02

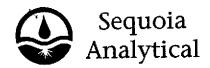
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	10 0.10 0.10 0.10 0.10	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 93

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

Brucie Fletcher Project Manager

Page:



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

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

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

Client Proj. ID: 310-058.3A/5760,San Lorenzo Sampled: 10/18/95

Attention: Maree Doden

Sample Descript: U-1 Matrix: AIR

Received: 10/19/95

Analysis Method: 8015Mod/8020 Lab Number: 9510D77-03

Analyzed: 10/20/95 Reported: 10/31/95

QC Batch Number: GC102095BTEX03A Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte		ion Limit J/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: Unidentified HC	0 0	0 0.10 0.10 0.10 0.10	1.8 4.7 3.2 13
Surrogates Trifluorotoluene	Control 70	Limits % 130	% Recovery 116

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

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Brucie Fletcher Project Manager

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

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

Client Proj. ID: 310-058.3A/5760,San Lorenzo

Sample Descript: U-3

Matrix: AIR

Analysis Method: 8015Mod/8020 Lab Number: 9510D77-04

Sampled: 10/18/95 Received: 10/19/95

Analyzed: 10/20/95

Reported: 10/31/95

QC Batch Number: GC102095BTEX17A nstrument ID: GCHP17

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte		tion Limit g/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		100 1.0 1.0 1.0 1.0	5.8 2.6 14 62
Surrogates Trifluorotoluene	Contro 70	ol Limits % 130	% Recovery 119

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

SEQUOIA ANALYTICAL

ELAP #1210

3rucie Fletcher ^oroject Manager

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.3A/5760, San Lorenzo

San Jose, CA 95110

Attention: Maree Doden

Work Order #:

9510D77

01, 02

Reported:

Nov 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	
QC Batch#:	GC102095BTEX02A	GC102095BTEX02A	GC102095BTEX02A	GC102095BTEX02A	
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 #:	9510A0602	9510A0602	9510A0602	9510A0602	
Sample Conc.:	N.D.	N.D.	N,D.	N.D.	
Prepared Date:	10/20/95	10/20/95	10/20/95	10/20/95	
Analyzed Date:	10/20/95	10/20/95	10/20/95	10/20/95	
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	
Conc. Spiked:	10 µg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	9.9	9.7	9.9	30	
MS % Recovery:	99	97	99	100	
Dup. Result:	9.7	9.5	9.8	30	
MSD % Recov.:	97 [.]	95	98	100	
RPD:	2.0	2.1	1.0	0.0	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

					
MS/MSD LCS	71-133	72-128	72-130	71-120	
Control Limits					

SECUÇIA ANALYTICAL

Brucie Fletcher 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



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

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

Pacific Environmental Group

2025 Gateway Place, Suite 440

San Jose, CA 95110 Attention: Maree Doden Client Project ID: 310-058.3A/5760, San Lorenzo

Work Order #:

9510D77 03 Reported:

Nov 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
QC Batch#:	GC102095BTEX03A	GC102095BTEX03A	GC102095BTEX03A	GC102095BTEX03A	
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 #:		9510A0602	9510A0602	9510A0602	
Sample Conc.:		N.D.	N.D.	N.D.	
Prepared Date:		10/20/95	10/20/95	10/20/95	
Analyzed Date:		10/20/95	10/20/95	10/20/95	
Instrument I.D.#:		GCHP3	GCHP3	GCHP3	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	9.8	9.7	9.6	29	
MS * Recovery:	98	97	96	97	
Dup. Result:	9.3	9.2	9.1	27	
MSD % Recov.:		92	91	90	
RPD:	5.2	5.3	5.3	7.1	
RPD Limit:		0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

MS/MSD LCS	71-133	72-128	72-130	71-120	
Control Limits					

SEQUOJA, ANALYTICAL

Brucie Fletcher 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.



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Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID: 3

310-058.3A/5760, San Lorenzo

San Jose, CA 95110

Attention: Maree Doden

Work Order #:

9510D77

04

Reported:

Nov 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	,
QC Batch#: Analy. Method: Prep. Method:		GC102095BTEX17A EPA 8020 EPA 5030	GC102095BTEX17A EPA 8020 EPA 5030	GC102095BTEX17A EPA 8020 EPA 5030	
Analyst: MS/MSD #: Sample Conc.: Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:	9510A0602 N.D. 10/20/95 10/20/95 GCHP17	D. Jirsa 9510A0602 N.D. 10/20/95 10/20/95 GCHP17 10 µg/L	D. Jirsa 9510A0602 N.D. 10/20/95 10/20/95 GCHP17 10 µg/L	D. Jirsa 9510A0602 N.D. 10/20/95 10/20/95 GCHP17 30 μg/L	
Result: MS % Recovery: Dup. Result:	9.7 97 9.2	8.1 81 9.2	7.8 78 9.0	23 77 27	
MSD % Recov.: RPD: RPD Limit:	5.3	92 13 0-50	90 14 0-50	90 16 0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

MS/MSD						
LCS	71-133	72-128	72-130	71-1	120	
Control Limits						

SEQUOIA ANALYTICAL

Brucie Fletcher 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



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(916) 921-960Q

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

Client Proj. ID: 310-058.3A/5760,San Lorenzo

Sample Descript: INFL

Matrix: AIR

Analysis Method: 8015Mod/8020

Lab Number: 9510E88-01

PACHICENVIRONMENTAL GROUP, INC. Sampled: 10/19/95

Received: 10/20/95

Analyzed: 10/23/95 Reported: 10/26/95

QC Batch Number: GC102395BTEX17A nstrument ID: GCHP17

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	De	etection Limit ug/L		Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		100 1.0 1.0 1.0 1.0		8.4 8.7 17 50
Surrogates Trifluorotoluene	Co 70	ntrol Limits %	130	% Recovery 127

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

ELAP #1210

3rucie Fletcher ^oroject Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-058.3A/5760,San Lorenzo

Sample Descript: EFFL

Matrix: AIR

Analysis Method: 8015Mod/8020

Lab Number: 9510E88-02

Sampled: 10/19/95 Received: 10/20/95

Analyzed: 10/20/95 Reported: 10/26/95

C Batch Number: GC102095BTEX03A

istrument ID: GCHP03

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	10 0.10 0.10 0.10 0.10	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 98

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

SEQUOIA ANALYTICAL

ELAP #1210

rucie Fletcher roject Manager

Page:

2



Redwood City, CA 94063 Walnut Creek; CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.3A/5760, San Lorenzo

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9510E88 01

Reported:

Oct 30, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes
			Benzene	
QC Batch#:	GC102395BTEX17A	GC102395BTEX17A	GC102395BTEX17A	GC102395BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
MS/MSĎ #:		9510A0604	9510A0604	9510A0604
Sample Conc.:		N.D.	N.D.	N.D.
Prepared Date:		10/23/95	10/23/95	10/23/95
Analyzed Date:	10/23/95	10/23/95	10/23/95	10/23/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L
Result:	8.7	8.6	7.8	28
MS % Recovery:	87	86	78	96
Dup. Result:	9.2	9.0	8.1	29
MSD % Recov.:		90	81	100
RPD:	5.6	4.5	3.8	4.1
RPD Limit:	0-50	0-50	0-50	0-50
		•		

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

MS/MSD					
LCS	71-133	72-128	72-130	71-120	
Control Limits					

SEQUOIA ANALYTICAL

Brucie Fletcher 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



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Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.3A/5760, San Lorenzo

San Jose, CA 95110

Attention: Maree Doden

Work Order #:

9510E88 (

02

Reported:

Oct 30, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	
QC Batch#:	GC102095BTEX03A	GC102095BTEX03A	GC102095BTEX03A	GC102095BTEX03A	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:		EPA 5030	EPA 5030	EPA 5030	
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	
MS/MSD #:	9510A0602	9510A0602	9510A0602	9510A0602	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	10/20/95	10/20/95	10/20/95	10/20/95	
Analyzed Date:	10/20/95	10/20/95	10/20/95	10/20/95	
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	9.8	9.7	9.6	29	
MS % Recovery:	98	97	96	97	
Dup. Result:	9.3	9.2	9.1	27	
MSD % Recov.:	93	92	. 91	90	
RPD:	5.2	5.3	5.3	7.1	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

LCS Result: LCS % Recov.:

				1	
MS/MSD					
LCS	71-133	72-128	72-130	71-120	
Control Limits					

SEQUOIA ANALYTICAL

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

9510E88.PPP <2>



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□ Last 11110 монидотнету, ошне в • орокане, угл загоо • (309) згч-згш
 □ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: Project Name: Address: UNOCAL Project Manager: Release #: 3/0 -State: Zip Code Felephone: Site #: Sampler: C Data: Level D (Standard) ☐ Level C ☐ Level B Level A 10 Work Days 5 Work Days 3 Work Days Turnaround Drinking Water Analyses Requested Time: 2 Work Days 1 Work Day 2-8 Hours ☐ Waste Water CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure Other // Client Date/Time Matrix # of Cont. Laboratory Sample I.D. Sampled Type Desc. Cont. Sample # Comments でYellow - Laboratory 6. 9. - Laboratory 10. Relinquished By: Received 8 Relinquished By: Date: 10-20-95 Time: 12! 00 Received By: Time: 10:45 77 Relinquished By: Time:)20字 Date: Time: Received By Lab. Were Samples Received in Good Condition? ☐ Yes ☐ No. Samples on Ice? I Yes I No Method of Shipment Page. 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? \square Yes \square No If no, what was the turnaround time? \square Approved by: Signature: Company: Date:



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FAX (415) 364-9233 <u>FAX (510) 988-9673</u>

(916) 921-94 **图WIN**图例 PACIFIC ENVIRONMENTAL GROUP, INC

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

Client Proj. ID: 310-058.3A/5760,San Lorenzo

Sample Descript: INFL

Matrix: AIR

Analysis Method: 8015Mod/8020 Lab Number: 9510F23-01

Received: 10/20/95 Analyzed: 10/23/95

Attention: Maree Doden

Reported: 10/31/95

Sampled: 10/20/95

C Batch Number: GC102395BTEX17A istrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	100 1.0 1.0 1.0 1.0	1.7 3.8 6.2 27
Surrogates Trifluorotoluene	Control Limits % % 70 130	Recovery 94

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

SEQUOIA ANALYTICAL

ELAP #1210

3rucie Fletcher ³roject Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

310-058.3A/5760,San Lorenzo Client Proj. ID: Sample Descript: EFFL

Sampled: 10/20/95 Received: 10/20/95

Matrix: AIR

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9510F23-02

Analyzed: 10/23/95 Reported: 10/31/95

QC Batch Number: GC102395BTEX17A

Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	10 0.10 0.10 0.10 0.10	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 94

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

SEQUOIA ANALYTICAL

Brucie Fletcher Project Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID: 310-058.3A/5760, San Lorenzo

San Jose, CA 95110

Attention: Maree Doden

Work Order #:

9510F23

01, 02

Reported:

Nov 1, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
	•		Benzene		
QC Batch#:	GC102395BTEX17A	GC102395BTEX17A	GC102395BTEX17A	GC102395BTEX17A	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan	
MS/MSD #:	9510A0604	9510A0604	9510A0604	9510A0604	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	10/23/95	10/23/95	10/23/95	10/23/95	
Analyzed Date:	10/23/95	10/23/95	10/23/95	10/23/95	•
nstrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	8.7	8.6	7.8	29	
MS % Recovery:	87	86	78	97	
Dup. Result:	9.2	9.0	8.1	30	
MSD % Recov.:	92	90	81	100	
RPD:	5.6	4.5	3.8	3.3	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

MS/MSD				•	
LCS	71-133	72-128	72-130	71-120	•
Control Limits					

SECUÇIA ANALYTICAL

Brucie Fletcher Project Manager Please Note

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

9510F23.PPP <1>



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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

NOV 0 9 1995

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: Infl Matrix: LIQUID

Analysis Method: 8015Mod/8020

Lab Number: 9510L45-01

Sampled: 10/30/95 Received: 10/31/95

Analyzed: 11/01/95 Reported: 11/06/95

C Batch Number: GC110195BTEX07A

nstrument ID: GCHP07

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detecti	on Limit	Sample Results
	ug	/L	ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	21 22 22 23 24	5 5	480 1400 900 7100
Surrogates	Control	Limits %	% Recovery
Trifluorotoluene	70	130	79

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

SEQUOIA ANALYTICAL

ELAP #1210

Brucie Fletcher Project Manager

Page:

1



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

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

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Proj. ID: 310-058.5A/5760,San Lorenzo Sample Descript: Effl

Sampled: 10/30/95

San Jose, CA 95110

Matrix: LIQUID

Received: 10/31/95

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9510L45-02

Analyzed: 10/31/95 Reported: 11/06/95

C Batch Number: GC103195BTEX01A

strument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 0.50 0.50 0.50 0.50	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 120

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

rucie Fletcher roject Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-960° (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440

San Jose, CA 95110

Attention: Maree Doden

Client Project ID: Matrix: 310-058.5A/5760, San Lorenzo

LIQUID

Work Order #:

9510L45 01

Reported:

Nov 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	•
,		•	Benzene	•	1
QC Batch#:	GC110195BTEX07A	GC110195BTEX07A	GC110195BTEX07A	GC110195BTEX07A	
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 #:	951019808	9510 9808	951019808	951019808	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95	
Analyzed Date:	11/1/95	11/1/95	11/1/95	11/1/95	
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	
Conc. Spiked:	10 µg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	8.3	8.2	8.1	26	٠.
MS % Recovery:	83	82	81	87	
Dup. Result:	9.0	9.2	8.9	27	• .
MSD % Recov.:	90	92	89	90	
RPD:	8.1	11	9.4	3.8	
RPD Limit:	0-50	0-50	· 0-50	0-50	
LCS #:	BLK110195	BLK110195	BLK110195	BLK110195	
Prepared Date:	11/1/95	11/1/95	11/1/95	11/1/95	
Analyzed Date:		11/1/95	11/1/95	11/1/95	
Instrument I.D.#:		GCHP7	GCHP7	GCHP7	
Conc. Spiked:		10 μg/L	10 μg/L	30 μg/L	
LCS Result:	9.6	9.5	9.5	29	•
LCS % Recov.:	96	95	95	97	

SEQUOIA ANALYTICAL

Brucie Fletcher Project Manager

MS/MSD LCS

Control Limits

Please Note:

71-133

72-128

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.

71-120

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

9510L45.PPP <1>



72-130



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A/5760, San Lorenzo

Matrix:

LIQUID

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9510L45 02

Reported:

Nov 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
QC Batch#:	GC103195BTEX01A	GC103195BTEX01A	GC103195BTEX01A	GC103195BTEX01A	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan	
MS/MSD #:	9510F4004	9510F4004	9510F4004	9510F4004	
Sample Conc.:		N.D.	N.D.	N.D.	
Prepared Date:		10/31/95	10/31/95	10/31/95	
Analyzed Date:		10/31/95	10/31/95	10/31/95	
Instrument I.D.#:		GCHP1	GCHP1	GCHP1	
Conc. Spiked:		10 μg/L	10 μg/L	30 μg/L	
Conc. opikea.	10 µg/ E		7:0,	· · · · · · · · · · · · · · · · · · ·	
Result:	9.5	9.4	9.5	28	·
MS % Recovery:		94	95	93	
Dup. Result:	9.8	9.8	10	30	
MSD % Recov.:		98	100	100	
RPD:	3.1	4.2	5.1	6.9	
RPD Limit:		0 -50	0-50	0-50	
LCS #:	BLK103195	BLK103195	BLK103195	BLK103195	
Prepared Date:	10/31/95	10/31/95	10/31/95	10/31/95	
Analyzed Date:		10/31/95	10/31/95	10/31/95	
Instrument I.D.#		GCHP1	GCHP1	GCHP1	
Conc. Spiked:		10 μg/L	10 μg/L	30 μg/L	
LCS Result	9.0	9.0	9.1	27	
LCS % Recov.		90	91	90	
MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL

Brucie Fletcher
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

9510L45.PPP <2>

UNOCAL 76

680 Chesapeake Drive • Hedwood City, CA 94003 • (410) 304-9600

- ☐ 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- ☐ 1900 Bates Ave., Suite LM Concord, CA 94520 (510) 686-9600
- ⊔ East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200 •
- ☐ 15055 S.W. Sequoia Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

Company Name: 7	n Enli	Gri	· ·			Project Na	ne:	6 K	FLIE	Un	CB	(11)	bani	Cres	770
Address: 25	Poterno	1 18/	#4	(11)		UNOCAL F	roject M	anager:	Tina	Bel	111				
City: 777-75	State:	100.		Zip Code: ⁽	15/10	Release #:	310	-05	8.5	A			····		Ħ
Telephone:	47500	F		40844	47539	Site #: 5	760	·					<u> </u>		·Client
Report To:	Link	Sampler:	ma	yt G	ubril	QC Data:	Level	D (Standa	rd) 🗀 Le	vel C	<u> </u>	evel B	☐ Leve	el A	Pink.
Turnaround 10 W	Vork Days 5 \	Vork Days	Пзм		— ₽,w	inking Wat		1044	Ana	lyses R	equeste	ed	//	7	
CODE: Misc.	Detect. 🖸 Eval.					theribs	185	//			/. ,	/ /	/ /	-	
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #		\mathcal{X}		//				Comr	nents	>
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Relinquished By:	MD	o de	Date	10/31/2	Time O	5 Receiv	ed By:	K. V	<u> </u>		Date:	<u> </u>	Time:/O	*	White
Relinguished By:	A.Cu.		Date		Time:		ed By La	7-	<u> </u>		Date:	31/95	Time: 11		İ
Were Samples Recei	ved in Good Con	dition? 🗅 Y	es 🗅 No	S S	amples on Ice	? □ Yes □	No Me	ethod of S	Shipment_	-,-	···		Page	of <u></u>	_
To be completed upo	on receipt of repo	rt:		-11	ate d0 D Vs -		whatas	alvese s	re etill nec	ded?					
1) Were the ana 2) Was the repo	dyses requested ort issued within th	on the Cha ne requeste	in of Cu ed turna	stody repo round time	rted? U Yes ? D Yes D N	⊔ Noirno olfno,wh	, wnat an at was th	e turnaro	ound time	?					
				Signature:			Co	трапу:					Date:		J



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

PACIFIC ENVIRONMENTAL GROUP IN

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: !NFL

Matrix: AIR

Analysis Method: 8015Mod/8020 Lab Number: 9512017-01

Sampled: 11/30/95 Received: 12/01/95

Analyzed: 12/01/95 Reported: 12/05/95

Attention: Maree Doden

C Batch Number: GC120195BTEX03A istrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Det	ection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total)	•••••••••••	0.25 0.25	
Chromatogram Pattern:	***************************************		8.0 Gas
Surrogates Trifluorotoluene	Cont	rol Limits %	% Recovery

130 109

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

EQUQIA ANALYTICAL -

ucie Fletcher oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: EFFL

Matrix: AIR

Analysis Method: 8015Mod/8020

Lab Number: 9512017-02

Sampled: 11/30/95 Received: 12/01/95

Analyzed: 12/01/95 Reported: 12/05/95

C Batch Number: GC120195BTEX03A

nstrument ID: GCHP03

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	10 0.10 0.10 0.10 0.10	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 105

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

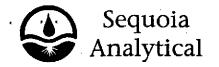
BEQUOIA ANALYTICAL -

ELAP #1210

rucie Fletcher roject Manager

Page:

2



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A/5760, San Lorenzo

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9512017

01-02

Reported:

Dec 6, 1995

QUALITY CONTROL DATA REPORT

			•		
Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		•
	GC120195BTEX03A	GC120195BTEX03A	GC120195BTEX03A *	GC120195BTEX03A	
Analy. Method:		EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	<u> </u>
A see to see to					
Analyst:		J. Woo	J. Woo	J. Woo	
MS/MSD #:		9511E4203	9511E4203	9511E4203	
Sample Conc.:		N.D.	N.D.	N.D.	
Prepared Date:	, ,	12/1/95	12/1/95	12/1/95	
Analyzed Date:		12/1/95	12/1/95	12/1/95	
Instrument I.D.#:		GCHP3	GCHP3	GCHP3	-
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	8.5	8.2	. 8.0	. 22	
MS % Recovery:	85	82	80	73	
Dup. Result:		•			
MSD % Recov.:	9.1	8.9	8.8	26	
MSD % Recov.:	91	89	88	87	•
RPD:	6.8	8.2	9.5	17	
RPD Limit:	0-50	0-50	0-50	0-50	
LCS #:	BLK120195	BLK120195	BLK120195	BLK120195	
Prepared Date:	12/1/95	12/1/95	12/1/95	12/1/95	
Analyzed Date:	12/1/95	12/1/95	12/1/95	12/1/95	
nstrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
LCS Result:	9.2	9.0	9.1	27	
LCS % Recov.:	92	90	91	90	•
	~	50	g i	au	
MS/MSD				·	
ĽCS	71-133	72-128	72-130	71-120	
Control Limits					

SEQUOIA ANALYTICAL

Brucie Fletcher 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

9512017.PPP <1>

Company Name: DA	94520 • (510) 686-9600
Company Name: PACIFIC GUNRON MONTAL GROUP Address: 2025 GASGUAN OF THE TAIL GROUP	Project Name: 2 16.
City 1841 1 5 1	Project Name: 376 LGUELLING BLW. SAN LOREN 70 UNOCAL Project Manager: TINA RESOLUTION
Telephone: 408 444 75	UNOCAL Project Manager: TINA BERRY Release #: 310 - 658,5A
	Site #: 5760
Time: 2 Work Days 5 Work Days 3 Work Days	Joyal C C
CODE: Detect. Detect. Remed. Demol. Closure	Waste Water Analyses Requested
Sample ID Sample I Watrix # of Cont	Other Calls Sold Services
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1 STO V MARY 110 1 BAY	Comments
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7	- I tour \$
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10.	Completion
	Report of
Relinquished By: Datel 30.95 Time: 120	quantitying
Relinquished By: (12-// Ime://20	Received By Date: 130/95 Time: 1120
Relinquished By: Date: 71/95 Time: 11/45	Received By: Sloss Pater 12-100
Were Samples Received in Good Condition? Yes No Samples on local	Date: 12-1-(1) Time: 1/:4}
10 be completed upon an incomplete of the state of the st	Yes No Mother esset (Assessed 12/17) Time: 1235
1) Were the analyses requested on the Chain of Custody reported? □ Yes □ No. 10 2) Was the report issued within the requested turnaround time? □ Yes □ No. 10 Approved by: Signature:	No. If no, what analyses are still needed?
Signature:	Tho, what was the turnaround time?Company:
·	Date:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 FAX (415) 364-9233 FAX (510) 988-9673

DEC 18 1995

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: INFL Matrix: LIQUID

Analysis Method: 8015Mod/8020

Lab Number: 9512142-01

Sampled: 11/30/95 Received: 12/01/95

Analyzed: 12/05/95 Reported: 12/14/95

C Batch Number: GC120595BTEX20A

istrument ID: GCHP20

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection ug.	on Limit /L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 50 50 50 50	0	190 310 210 3700
Surrogates Trifluorotoluene	Control 70	Limits % 130	% Recovery 96

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

EQUOIA ANALYTICAL - ELAP #1210

ucie Fletcher oject Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (5,10) 988-9673 FAX (916) 921-0100

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo Sample Descript: EFFL

Matrix: LIQUID

Sampled: 11/30/95 Received: 12/01/95

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9512142-02

Analyzed: 12/05/95 Reported: 12/14/95

C Batch Number: GC120595BTEX20A

istrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

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

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

EQUOIA ANALYTICAL -ELAP #1210

ucie Fletcher oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

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

Client Project ID: Matrix:

310-058.5A/5760, San Lorenzo

LIQUID

Attention: Maree Doden Work Order #:

9512142

01, 02

Reported:

Dec 14, 1995

QUALITY CONTROL DATA REPORT

	4		•	
Analyte:	Benzene	Toluene	Ethyl	Xylenes
			Benzene	Aylenes
QC Batch#:	GC120595BTEX20A	GC120595BTEX20A	GC120595BTEX20A	CC100EDEDTEMOSA
Analy. Method:		EPA 8020	EPA 8020	GC120595BTEX20A EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	
			E1 X 0000	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9511H1503	9511H1503	9511H1503	9511H1503
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/5/95	12/5/95	12/5/95	12/5/95
Analyzed Date:	12/5/95	12/5/95	12/5/95	12/5/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 µg/L
		• • •	· • µa, =	. ου μg/L
Result:	10	10	9.9	29
MS % Recovery:	100	100	99	97
			••	91
Dup. Result:	10	10	. 10	30
MSD % Recov.:	100	100	100	100
•				
RPD:	0.0	0.0	1.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50
**************************************				0 00
LCS #:	BLK120595	BLK120595	BLK120595	BLK120595
Prepared Date:	12/5/95	12/5/95	12/5/95	12/5/95
Analyzed Date:	12/5/95	12/5/95	12/5/95	12/5/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L
				1 4) 4
LCS Result:	9.6	9.9	9.8	29
LCS % Recov.:	96	99	98	97
UN TURB				
MS/MSD	_			
LCS	71-133	72-128	72-130	71-120
Control Limits				

QUOIA ANALYTICAL

Brucie Fletcher 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

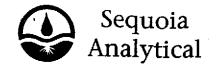
9512142.PPP <1>

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☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600

□ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name:	NEC CONTO		(^			Project Name	0011	-		0			
Address: 9025 GA	ALTO PONTO	NMENT.	AL CAK	oup		Project Nam	0 2 16	Lough	LING BLV	D JA	N LORE	FNZ0	
City of As I along	46WAY 12.310		<u> </u>			UNOCAL Pr	oject Ma	ınager: 🌱	INA BA	RRY			
city: An Jos		CA		Zip Code:		Release #:	<u> 310 -</u>	<u>058.5</u>	<i>7</i> 4				
Telephone: 108 4			FAX #:	441-7	339 <u> </u>	Site #: 57	60						
Report To: MREE (V MADOO		QC Data:	Level D) (Standard)	Dil evel C		Level B	☐ Level A	
Turnaround A 10 W Time: □ 2 Wo	/ork Days □ 5 V ork Days □ 1 V	Vork Day Vork Day	s 🗓 3 V	Work Days 8 Hours		rinking Water Vaste Water			Analyses			G Level A	<u>}</u>
CODE: 🗆 Misc. 🗀					osure 🗗 C	other GW S	1/		///	/ /			
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laborator Sample #	y John			///			Comments	
1. INFL	11.3095/0940	W	3	VOA/HU		Z	ÍΠ		$\overline{}$				
2. SEPL	11.395/0135	V	3	VV	02	2					1		ahoraton
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Relinquished By: 🛝	Skou		Date:	12/1/95	Time:	Received	Bv Lab:	ANN			2/1/95 T		7>
Were Samples Receive		on? ☐ Ye				⁄ ØTYes □ No		, , , , , , , , , , , , , , , , , , , ,	nent Court		<u></u>	Page _/ of _/	
To be completed upon 1) Were the analys 2) Was the report i	ses requested on issued within the i	requeste	u turnaro	ound time?	☐ Yes ☐ No	If no, what w	at analys as the tu	ses are stil	I needed? -	. ,			
Approved by:			S	ignature: _	<u> </u>		_Compa	any:	<u> </u>			Date:	



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 FAX (415) 364-9233 (510) 988-9600 FAX (510) 988-9673 學學學 / 21-0100

PACIFIC ENVIRONMENTAL GROUP, INC.

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: INFL

Matrix: AIR

Analysis Method: 8015Mod/8020

Lab Number: 9512J12-01

Sampled: 12/27/95 Received: 12/28/95

Analyzed: 12/29/95 Reported: 01/04/96

C Batch Number: GC122995BTEX17A

nstrument ID: GCHP17

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sam	ple Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:			N.D. 0.14 0.53 0.36 2.3
Surrogates Trifluorotoluene	Control Limits %	% Rec	overy 97

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

EQUOIA ANALYTICAL -

ELAP #1210

ucie Fletcher oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: MID

Matrix: AIR

Analysis Method: 8015Mod/8020

Sampled: 12/27/95 Received: 12/28/95

Analyzed: 12/29/95 Reported: 01/04/96

Attention: Maree Doden

Lab Number: 9512J12-02

C Batch Number: GC122995BTEX17A

istrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	10 0.10 0.10 0.10 0.10	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 102

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

EQUOIA ANALYTICAL - ELAP #1

ucie Fletcher oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

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

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sampled: 12/27/95

San Jose, CA 95110

Sample Descript: EFFL Matrix: AIR

Received: 12/28/95

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Ńumber: 9512J12-03

Analyzed: 12/29/95 Reported: 01/04/96

C Batch Number: GC122995BTEX17A

istrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	10 0.10 0.10 0.10 0.10	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 108

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

ELAP #1210

rucie Fletcher oject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A/5760, San Jose

San Jose, CA 95110

Attention: Maree Doden

Work Order #:

9512J12

01-03

Reported:

Jan 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
Allalyte.	Delizerie	loidella	•	Ayleties	
OC Patch#	GC122995BTEX17A	CC40000CDTEV474	Benzene	0040000DTFV47A	
Analy. Method:		GC122995BTEX17A	GC122995BTEX17A	GC122995BTEX17A	
Prep. Method:		EPA 8020	EPA 8020	EPA 8020	
Prep. Metriou.	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo	
MS/MSD #:		9512G9305	9512G9305	9512G9305	
Sample Conc.:		N.D.	N.D.	N.D.	
Prepared Date:		12/29/95	12/29/95	12/29/95	
Analyzed Date:		12/29/95	12/29/95	12/29/5	
Instrument I.D.#:		GCHP17	12/2995 GCHP17	12/2890 GCHP17	
Conc. Spiked:					
Coric. Spiked.	ioμg/c	10 μg/L	10 μg/L	30 μg/L	
Result:	12	12	12	37	
MS % Recovery:		120	120	123	
		120	120	.25	
Dup. Result:	11	12	12	34	
MSD % Recov.:	110	120	120	113	
RPD:	8.7	0.0	0.0	8.5	
RPD Limit:	0-50	0-50	0-50	0-50	
LCS #:	BLK122995	BLK122995	BLK122995 .	BLK122995	
Prepared Date:	12/29/95	12/29/95	12/29/95	12/29/95	
Analyzed Date:	12/2995	12/2995	12/2995	12/2995	
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
- ,		,	. •/	· - ,	
LCS Result:	11	12	12	35	
LCS % Recov.:	110	120	120	117	•
MS/MSD		• • • • • • • • • • • • • • • • • • • •			·
LCS	71-133	72-128	72-130	71-120	
Control Limits					

SEQUQIA ANALYTICAL

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

9512J12.PPP <1>

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Company Name: Waracovu	ROUMENTA	Larour	· · · ·		Project I	Name:	37	6Le	₩€L	LINK	G BL	VD:Se	tr Laec	N70
Address: 205 GATE			D		UNOCA	L Proje	ect Ma				SERR'		· · · · · · · · · · · · · · · · · · ·	
	State: CK		ode:951		Release	_			_					
Telephone: 408 441-75	~~ ~~	FAX#: 4	41-75		Site #:									Client
Report To: MACE DODGE	<u> </u>	er: JOHN	MADO		QC Data	1		(Standa	ırd) 📮	Level C		Level B	Leve	- 1
Turnaround -2-10 Work Days			 	1 	inking W			(4			Reques			
Time: 2 Work Days			-		aste Wa							7 /		7 3 - 1- T-
CODE: Misc. Detect.	Eval Peme	ed. 🗅 Demol.	☐ Closure	JÆ Ot	her	XX	/	/. ,	/ /	/ /		/,	/	512112
Client Date/Ti Sample I.D. Sampl		1 " -,	1	aboratory Sample #	13				/,	//	//		Comn	
1. INFL 12.79.95	1110 AIR	1 Tea	AR 01	A	X									Laboratory
2. MID /	1140	1	[02		X	1.								abor
3. 6PG V/	1135	1 / 1	03	1		<u> </u>					·			
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Relinquished By:	×	Date 12.28	395 Time	:Cf00	Rece	eived B	<u>γ:/</u> Υ	TT	200	· · ·	Date2	20/95	Time: 010	55
Relinquished By:	Doe.	_ Date: 12/2	1.	: 2:25	Bece	eived B	v: 4	1	1/2		TT		Time: スプ	<u>e</u>
	Mila	12/28/	05				 ,	1/1/			7	, ,	Time: 162	. 1
Relinguished By:	Condition?	Daxe: 7	Time	s on Ice?		eived B		144	hipmen		NOW R	2/29/25	11 Ime: 160	of



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 FAX (415) 364-9233 (510) 988-9600 FAX (510) 988-9673 (916) 3N 98000 FAX (510) 989-9673

PACIFIC ENVIRONMENTAL GROUP, INC

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

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Sample Descript: INFL

Matrix: LIQUID Analysis Method: 8015Mod/8020

Lab Number: 9512J96-01

Sampled: 12/27/95 Received: 12/28/95

Analyzed: 01/03/96 Reported: 01/09/96

C Batch Number: GC010396BTEX21A

istrument ID: GCHP21

Attention: Maree Doden

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Det	ection Limit ug/L		Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		200 2.0 2.0 2.0 2.0		23
Surrogates Trifluorotoluene	Con 70	trol Limits %	130	Recovery

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

SEQUOIA ANALYTICAL

ELAP #121

3rucie Fletcher Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

Pacific Environmental Group 2025 Gateway Place, Suite 440

310-058.5A/5760,San Lorenzo Client Proj. ID:

Sampled: 12/27/95

San Jose, CA 95110

Sample Descript: EFFL Matrix: LIQUID

Received: 12/28/95

Attention: Maree Doden

Analysis Method: 8015Mod/8020 Lab Number: 9512J96-02

Analyzed: 01/03/96 Reported: 01/09/96

C Batch Number: GC010396BTEX21A

istrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 0.50 0.50 0.50 0.50	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 109

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

Brucie Fletcher Project Manager



680 Chesapeake Drive 404 N. Wiget Lane

Redwood City, CA 94063 Walnut Creek, CA 94598 819 Striker Avenue, Suite 8 Sacramento, CA 95834

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

acific Environmental Group 025 Gateway Place, Suite 440 an Jose, CA 95110 ttention: Maree Doden

Client Proj. ID: 310-058.5A/5760,San Lorenzo

Received: 12/28/95

Lab Proj. ID: 9512J96

Reported: 01/09/96

LABORATORY NARRATIVE

Please note:

MTBE was present in sample 9512j96-01.

EQUOIA ANALYTICAL

rucie Fletcher roject Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

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

Pacific Environmental Group 2025 Gateway Place, Suite 440 Client Project ID:

310-058.5A/5760, San Lorenzo

Matrix:

LIQUID

San Jose, CA 95110 Attention: Maree Doden

Work Order #:

9512J96

01,02

Reported:

Jan 10, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	1
			Benzene	O O O A PODO DE EVOA A	•
	GC010396BTEX21A	GC010396BTEX21A	GC010396BTEX21A	GC010396BTEX21A EPA 8020	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 5030	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo	
MS/MSD #:	9512G9809	9512G9809	9512G9809	9512G9809	
Sample Conc.:	N.D.	. N.D.	N,D.	N.D.	•
Prepared Date:	1/3/96	1/3/96	1/3/96	1/3/96	
Analyzed Date:	1/3/96	1/3/96	1/3/96	1/3/96	
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	•
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/ L	30 μg/L	
Result:	9.0	8.9	8.9	26	
MS % Recovery:	90	89	89	87	
Dup. Result:	9.6	9.6	9.7	28	
MSD % Recov.:	96	96	97	93	
RPD:	6.5	7.6	8.6	7.4	
RPD Limit:	0-50	0-50	0-50	0-50	
LCS#:	BLK010396	BLK010396	BLK010396	BLK010396	
Prepared Date:	1/3/96	1/3/96	1/3/96	1/3/96	
Analyzed Date:	1/3/96	1/3/96	1/3/96	1/3/96	
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
LCS Result:	8.9	8.4	7.8	23	
LCS % Recov.:	89	84	78	77	
MS/MSD			<u> </u>	· · ·	
LCS Control Limits	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL

Brucie Fletcher 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

9512J96.PPP <1>

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u в тэ энжег Ave., Suite в • Sacramento, CA 95834 • (916) 921-9600

□ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600

☐ East 11115 Montgomery, Sulte B • Spokane, WA 99206 • (509) 924-9200

☐ 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: PACKIC GWIKGMENTRY_ CROUP	Project Name Office
Address: 2005 Complete Complet	Project Name: 376 LEWELLING BLVD SAN LORENZO
Address: 2025 GARZNAY PL STE 440	ONOCAL Project Manager: TWA BERRY
City: Son Sosé State: CA Zip Code: 95110	Release #: 310-058,5A
Telephone: 100 7111 - 4500 FAX #: 441-7539	Site #: 5760
Report To: MAKEE DOOEN Sampler: Chaw MADON	OC Data: PT aval D (a)
Turnaround 10 Work Days 5 Work Days 3 Work Days	rinking Water Analyses Requested
CODE: Duties Day is the second	Vaste Water Whee G War 1997
Client Date/Time Matrix # of Cont. Laborator Sample I.D. Sampled Desc. Cont. Type Sample #	y 13/2/h
1. INFL 12,27.8/1055 W 3 VOA/Hel OI	Similaria
2. GFA2 V/1050 V 3 V D	A Paperatory
3.	+
4.	
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10.	+-+
	ap to the state of
Relinquished By: Date: 2.28,95 Time: 0700	Received By: N Dode Date: 12/28/19 Time: 0105
Relinquished By: Date: 12/28/95 Time: 2:2:	Sate: (2 / 2 / 2 / 1 / 2 / 2 / 2 / 2 / 2 / 2 /
Relinguished By: Tuffle Date: 75 Time:	
More Samples Destination of the	Page ↓ of ↓
To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? □ Yes □ 2) Was the report issued within the requested turnaround time? □ Yes □ No	No If no what well as well
Approved by:Signature:	Company: Date:

ATTACHMENT C FIELD DATA SHEETS

SITE INFORMATION FORM		N.
<u>Identification</u>	Project Type	
Project # 310 058315 Station # 5760 Site Address: 376 LEWELUNG BUID. SAN LORENZO, CA County:	1st Time Visit Quarterly 1st 2nd 3rd 4th Monthly Initials Date Semi-Monthly 0-1 10-5-95	Client P.O.C.: Date of Request 9/29/95 Ideal field date(s): 445/95 IO4/95(WE) Check Appropriate Category
Project Manager: HORK Requestor: MA	Weekly Copy/Dist One time event Other:	Budget Hrs. 7 HR. Actual Hrs
TASELINIE G.W. SAN TO MEASURE D.O. + U-1 THROUGH U-8 START-UP GW. EXT APPROXIMATELY 1.5 SHOULD GENERATE AP ANY WATER TO SANITA AND ANALYZE FOR PH, TEMPERATURE, EL FLOW RATE, CARB	RECONDUCTIVE SAC FILTER REWITHING TO SE PEG DIS TAKE GW SAMPLES (TPN-9) PACTION SYSTEM. & RUN PROURS + STORE ALL WA: PHOX. G DRUMS OF WATE RY SEWER. SAMPLE GW PRIORITY METALS + CYAN BOIS-RTEX, 8020/ PHE EC. CONDUCTIVITY. RECOND ON VESSEL + TSAC FILTER INCEN AT THE END OF THE	SOLVED O2 METER (BTEX) FROM WELLS! SYSTEM FOR TER IN SS GAL DRUM. R. DO NOT DISCHARGE SYSTEM EFFLUENT SIDE NOLS/COD/SUSJENDED SOLIOS
Consolete.	Staff (include problems encountered	73 41 (37)
PACIIFIC ENVIRONMENTAL GROUP	Monthly Quarterly Semi- Completed by: Checked by:	Annual Date:

PART 5 Special Discharge - Groundwater Discharges

3(B) Sampling Requirements

Parameter

O.L.S.D. Limit

Metals

, , , , , , , , , , , , , , , , , , , ,	
Arsenic	0.8 mg/L
Cadmium	0.2 mg/L
Copper	0.5 mg/L
Lead	1.0 mg/L
Mercury	0.01 mg/L
Nickel	1.0 mg/L
Selenium	1.0 mg/L
Silver	0.8 mg/L
Total Chromium	2.0 mg/l
Zinc	3.0 mg/L

Additional Testing

Total Petroleum Hydrocarbons (EPA 8015)	15 mg/L
B.T.E.X. (EPA 8020)	Non-detectable
Phenols	70 mg/L
Cyanide	1.0 mg/L

General Analysis

COD	N/A
Suspended Solids	N/A
рН	No lower than 5.5 units

wellt	DTWATCE) D:	0
U-1	17.90	2.6	2.7
U-Z	18.86	2.4	2.4
U-3	17.10	4.60	4.6
D-4	18.10	2.5	2.6
U-2	16.20	29	2,9
U-6	16.31	2.7	29
J-2	16.60	2.9	2.8

EFFL PH = 8.89

Temp = 77 8

8.C = 650

Flow Rate = 2 6.5 gpm

Tein Mod Down

Value

	PACIFIC ENVIRONMENTAL GROUP, INC.
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Project No: 310-58,38

Figure No:

Date: 10-4-95

Drawn By: J 🏳

Title:

UNOCAL	76
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¹ U 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600	☐ East 11115 Montgomery, Suit
☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600	Cl 15055 S.W. Sequoia Pkwy, Sui

O	East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200	
a	15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800	

1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-960										
	1	1900 Bates	AVA	Suite	1 M •	Concord (\triangle	04520	/51/\\	696-060

\circ	15055 S W	Sequoia Pkwy,	Suite 110 c	Portland OR	97999 • (5)	ነባነ ፍኃፈ-ዕደብ
_	10000 0.11.	COCCION I MANY	Cuito 110		J 100	/U/ UET-UU

																	£
Company Name:	cific Environ	nnenti	al Gren	υØ		Project	Name	:37	1/0 1	01.04	منااء	الآ م	,, Sa	<u> </u>	ADda a m		-
Address: 2025 GALLOCUS A. # 440 City: SANJOX State: (A. Zip Code: 95003						Project Name: 376 Lewelling Blv. SAn Lorenzo UNOCAL Project Manager: T Berry						\dashv					
city: SAN JOSE.	State:	CA.	`	Zip Code:	95003	Releas						''')					\exists
Telephone (408)	141-2500				17539	Site #:	-				<u> </u>		*.				\neg
Report To: Chock	'\		_	REUN		QC Da		_		lard)		el C		_evel.B		Level A	
Turnaround 🔲 10 W		Vork Day	s 🗆 3 \	Nork Days		Prinking \		20001	D (Stanc				equeste		, , , , , , , , , , , , , , , , , , ,	Level A	
Time: 2 Wo	ork Days 🗀 1 V	Vork Day	<u> </u>	8 Hours		Vaste W	ator		7	/5	Analy	7	Juesie	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,		
CODE: Misc.					losure	other	207	5/2.	, Se A	\$ <i>'</i> /			3/10				
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laborator Sample	ry - /8	400,4	2, 26. 3, 24.	Jan Jan	20/	97/3	57 Permission	//	//		Comments	
1. EFFL	10-4-95/1:45	WATER	3	40mL	,		Ť	Í:									
2. FFFL		1		500ML						\			,				
3. EFFL			-	1.2				X)						Pease	Filt. & Resi	76.2
4. FFFL				1R.			X									1-11-11-11-11-11-11-11-11-11-11-11-11-1	34
5. FFL				500ml			1		X				-				
6. EFFL	. V	\downarrow		10							\searrow	7					
7.			-														
8.				ļ			<u> </u>	<u> </u>	ļ								
9.							ļ	ļ				ļ	ļ <u></u>	·			_
10.				<u> </u>					<u> </u>								
Relinquished By:	DAY -		Date	10-4-95	Time: 2:45	- Rec	eived I	3v:	··			Di	ate:		Time:	·	7
Relinquished By:	1		Date		Time:		eived E	By:		,			ate:		Time:		
Relinguished By:			Date	· .	Time:	Rec	eived f	3v Lab	·				ate:		Time:		
Were Samples Receive	ed in Good Condi	tion? □ Y			mples on Ice					Shipme	ent	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>			e of	
To be completed upon 1) Were the analy 2) Was the report Approved (ses requested or	the Chai	d turnar	stody repor	ted? □ Yes 0	⊇No Ifro, v	o, who	at analy	yses ai turnarc	re still ound ti	neede me? –						

SITE INFORMATION FORM		1000000
Identification 54	Project Type	
Project # 310058 SA	1st Time Visit	Client P.O.C
itation #	Quarterly	Date of Request
ite Address:	1st 2nd 3rd 4t	1
376 FEWELLING TSWA		-
SAN LORENZO, CA	Monthly Initials Date	
ounty:	Semi-Monthly Rd 10/25/4	Check Appropriate Category
roject Manager:	Weekly	Budget Hrs
equestor:	I CansulPint RY old	John A
,	<u> </u>	Actual Hrs. 10/9=1.5
lient: <u>UNOCAL</u>	Other:	Mob de Mob (0/20 = 3.5)
ield Tasks: For General De	escription	arriveD 9:00-4:00
BAG TELETEL STALTION THE OF SUE NYTH VALUES ARE OFFUL THE WALLELING TAKE HISEL	ME THE POST OF THE POST OF THE	FINATOR = HOURS
		C/
NAME OF THE PARTY		<u> </u>
omments, remarks, etc. from Fie	d Staff (include problems encountered	ed and out-of-scope work)
		5/152 2
	······································	
Samples taken Samples no Semi-Monthly [idwater ni-Annual
PACIIFIC ENVIRONMENTAL GROU	Completed by:	Date:
ACHIC ELANIKO INIVIENIAL GROU	P, INC. Checked hv:	<i>/</i> ·

FIELD DATA SHEET

·	
Client: <u>//naa</u> /	Date: 10/18/95
Address: 376 LEG)	Project No.: 310 0583A Elling Bluttime Arrived: 9:00 Time Departed:
San Lorenzo	Time Departed:
Weather Conditions:	
Equipment at Site:	
Personnel at Site:	
////	
0.51	FIELD NOTES
GWS	
Totalizer = 000007	6
STOTED GUS @ 10	
HUMED (JUS (U) 10	:67 ·
SUE Sampling	
	(woe) K. STATTED SUE @ = 12:27
Time	FID (10-1 Dil.) - To maintain Flame
	Blower SkiD Data:
-1 = 1231	380
2117 = 1212	Ex ()=// Fire ()= - (/p « +/2)
*U-d- /3/0 ()-	30 WELL FIELD (IC. = 70) IVO
1-3 = 1229	950 /0/9/ F/OW = 1020 (2" PIPE)
1-4 = 1246 0-	50 Dilution inlike = 8 % ODEN/14
1-5= 1256 1	110 RECIRC. 11 = 90% 11/750
11-6= 1302 0-5	30 * MD TO MED Dilution To Ophicus
1-8 = 1239 0-4	L some Play THE Ch Play Proper
TNF = 12+71271	S JOME Flow THROUGH Blower BEOUS
EFFT - 1017	10 ()F-[Vall.
1/2-1911	<u></u>
* NO DUNE (O) N	ronitoring points.
X Installen - Cha	or color Between K.O. Dumpann
Bux Filter Sample	= mots @ (1-1/11-3 (3UE LINE) 1. XEL
TIEID SIX DIDE BE	For Dilutión
we see py De	· or Duvini
	
	$\mathcal{M}\mathcal{C}$
	Signature

FIELD DATA SHEET

Client: (JNocal	Date: 10/18/95
	Project No.: 2/00583A
b Address: 376 KEWELLing	Time Arrived:
NAV - character district	Time Departed:
Weather Conditions:	
Equipment at Site:	
1147	
FIEL	<u>D NOTES</u>
HAD TO JUMPER TB-5	TO TB-9 TO OPERATE SUE BECOUSE
SOULD NOT CLEAR alorm	IGHT (OHED GIFCO SOIL-HEIM)
THAT CIRCUIT IS TIED INC	To Dressure Switch on GWS
Bag Filter Formit WITE	bot yet Connected on pressure
Switch in Gux most.	Did not Connect.
CallED WITH GreGa	S.T. ann Correcten all
	US. All SCATEMS ONE
Kinning.	
Total @ DENT = (V)	m490 @ 1/0:00
to the contract of	
19/19	
SUSTEM (SUE) LAS DOL	on woon arrival (maybe.
Somebody Jump Fence an	D Turner OFF?) * no plann Lights
GUS DUMPS WERE ON TO	BUT WELLS WERE DELITERED, ON?
oump Controlers not Turi	TIME DUMPS OFF.
(1-3 DELIATED	ED=19.5 DIG) (1-3=1565
	(will pump off For lomin
	Ma
	Signature
	P

	activated SUE (pushed RESTART). 10:00
	actual Turnes GW pumps OFF For To allow
	WElls To recharge, activates GW pump
	approx 30 min. Later, 545tem (GW) ran
	For M 5-10 min. and att SUE WHE WENT
	Down on high pressure @ Bac, Filter (3080)
	Sampled SUE @ 10:50,
	WELL LAC. = 40
	Flow = . 21
	Dilution colue pos. = 30% open
	RECIR. " = 70% open
	MS = 00005.5 (10:53)
	Made More adjustments to pump Controlers (GWS)
1	LEFT BOTH Systems running.
1	no more Bag Filters on site.
	* MOST LIKELY SUF WENT DOWN BETWEE
	K MOST LIKELY SUE WENT DOWN BECAUSE OF high pressure alarm Consition @ Bag Filter
k	011 Gas.
	DEPOT = 11:30
	GWS ToTal = 0000947
ŀ	
	PACIFIC ENVIRONMENTAL GROUP, INC. Project No: Date: 10/19/95 Drawn Rv: MC
l	Drawn By: /////

1

Title:

DAY SOF SVE STARTUP										
INFL WE = 23 pm voc=65pm										
EFFL WC = 30 pm wce = 34 pm										
UT WE & WORE & COS/OZ SAMPLES TAKEN										
U9 we= \$ 000=\$ V V V V										
PREFILTER VAC = 40" H20, POST FILTER VAC = 46" H20										
787AL FLOW = 2500 fpm - 55 cFm										
Blower thes = 00033,95										
DO:										
U-1= * See Bason U5= 2 pm										
U2 = 3pm U6 = 2pm										
U-3 = SEE BELOW U-7= 3pm										
U-H= /ppm U-8= /ppm U-9=2pm										
*UN ABLE TO TAKE D.O. PIRECTLY FROM U-1AND U-3, U-14 U-3=										
(NFL= 2) ppm										
CIWE SYSTEM UP AND RUNNING. TO TALIZER = 000/190GAL										
NOR! COMPOUND NEEDS POSTING OF PROP 65 WARMING										
AND 3 10 EMERCHENCY NOTIFICATION TELEPHONE. STATION ATTEMPANT REPORTS THAT NEIGHBORS										
HAVE COMPLAINED ABOUT BLOWER NOISE AT NIGHT										
PACIFIC Project No: Figure No: Date: 0295										
Drawn By: JOHN MADOX										
Title:										

- ;

UNOCAL	76
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															_		-
Company Name:	ac. Enu	1. Cr	2			Pro	ject Nam	e: 3 7/	/ /	 	4//	n	2/1	11)	m	lover	2/2
Address: 2/25	GOTEL	01/2	2/.	#44	445	UN	UNOCAL Project Manager:									۲ د	
City: 201-705	State:	10.	;	Zip Code	15/10) Rel	ease#: _	310.	15	8. =	3/1						٦.
Telephone:	447500	F	ΑX #: 5	4284	4752	9 Site			<u> </u>		·					,	Client
Report To: Pare	Ciottin) Sampler:	m	3rt/	3 pas	7	Data;	l evel [) (Stand	ard\ [Leve	I.C.		_evel B	. [Level A	1 1
Turnaround 10 W			□ 3 W	Vork Days	Ö	_	ing Water		- 1010110		Analys					LOVOITA	P. F.
Time: Û 2 Wo	rk Days 🚨 1 V	Vork Day	□ 2-8	Hours			e Water	1/1	7		/)	~	/		
CODE: 🗆 Misc. 🖵 [17				Other	_ 4	THE Y									
Client Sample I.D.	Date/Time Sampled	Matrix	# of Cont.	Cont. Type	Labora Sampl		105		//					//		Comments	
1. TOFX	Wokin	23:	7	200	Odmpi	" 	X					/	_				چ ا
2. EFFL /	1995105	Oir	7	77	<u> </u>	-											Laboratory
3.	er grant and		``			7		 									그를
4.																	Yellow
5.																	73
6.				-													
7.																	
8.				· · · · · · · · · · · · · · · · · · ·	,												
9.																	\prod_{\sim}
10.	'																ratory
	13/1	A	4	,			·	· · ·							+		Labor
Relinquished By:	1/4/	JAN1	Date:	2/99	Time.	34	Received	Ву:				Da	ate:		Time:		
Relinquished By: Da			Date:		Time:		Received	Ву:				Da	ate:		Time:		White
Relinquished By: Date: Time:					Received By Lab:					D	ate:		Time:				
Were Samples Receive	ed in Good Condi	tion? 🗀 Ye	s 🗆 No	Sa	imples on I	ce? 🗅	Yes 🗅 N	o Meth	nod of S	Shipme	ent				Pag	ge of	
To be completed upon	receipt of report	;	·····								·	.				· · · · · · · · · · · · · · · · · · ·	7
 Were the analy 	ses requested or	n the Chair															- [
2) War the report		•					=										-
				J													

UNO	CAL	76
		•

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 □ 15055 S.W. Sequoia Pkwy, Suile 110 • Portland, OR 97222 • (503) 624-9800

Company Name:	Project Name: 379 LEWElling Bluid, San Loven 7														
Address: 050	40/FWAC	2/:	44	40		UNOCAL Project Manager									
City: 707-103	State/	Ca.	7	Zip Code	15110	Releas	e#: _2	3/0-	05	8.31	9				
Telephone: 4/)8 4	41760	F	AX #: 5	108/4	4753	Site #:	Ų.	(
Report To: Robert	Cottine	Sampler:	m	r/(G	uhris	QC Dat	a: 12 L	evel D ((Standard	a) □Le	vel C		Level B	3 □ Lev	
Turnaround 10 W				ork Days		Drinking \	7		<u>-</u>			Request			
Time: 2 Wo	ork Days 🔲 1 V	Vork Day	1 2-8	Hours	•	Waste Wa			$\overline{}$		/	7 /	7		7
CODE: Misc.	Detect. 🗆 Eval.	☐ Remed	Dei	mol. 🗀 Cl	osure	Other)	Y		/ /	/ /					
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laborato Sample		105/		//	//	/			Comi	ments
1. TOFL	01895133	air		BOS											
2. EFFL	13/		4	1			:								
3. U-/	1230		1/												
4. U-3	122	PV	V			1									=
5.									·						
6			`												
7.															
8.															
9															·
10.															
Relinquished By:	m/	1//	Date	nlat	Time: 7	// Boo	eived B					Date:	<u></u>	Time:	
Relinquished By:							eived B					Date:		Time:	
Relinquished By: Date: Time:						Received By Lab:						·	Time:]	
Were Samples Receive	ed in Good Condi	tion? □ Ye	s 🗆 No	Sa	mples on lo	e? 🗅 Yes	Q No	. Metho	d of Sh	ipment_				Page	of
To be completed upor 1) Were the analy 2) Was the report	y se s requested or t issued within the	n the Chain requested	turnaro	ound time	? 🗅 Yes 🗅 N	اِث الأ no, v	vhat wa	s the tu	rnarour	nd time?					
Approved L			S	ignature:				_Compa	any:					Da	I

U	} [V	U	C	A	L	VU	,
---	-----	---	---	---	---	---	----	---

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Company Name: 🖟	HOFIC GNYDDAM	MM GEAT	16.	Project Name: 🥂	16. J. Cook	LING	PAVO. VA	I GANTEN			
Address: 2025	CATENDAY.S	6440		Project Name: Office Och Mich GAMICA UNOCAL Project Manager:							
City: Ar)	Stafe: CA	Zip Code:	Release #: 10 -05 B.34								
Telephone: / (영다	41-1500	FAX#:40574	41 7531	Site #:							
Report To: こくんでくて	CIATI WIO Sample	TOHN MA	WOK	QC Data: d☑ Level	ID (Standard)	Level C	🔾 Level I	B D Level A			
	Vork Days ☐ 5 Work Day ork Days ☐ 1 Work Day			rinking Water Vaste Water		Analyses	Requested .				
	Detect. 🗆 Eval. 🕮 Reme			/ (3)	///		////				
Client Sample I.D.	Date/Time Matrix Sampled Desc.	# of Cont. Cont. Type	Laborator Sample #	y / (3)\/ /			///	Comments			
1. /W/G	102095/1513 MIR	1 CAG		X							
2. CFF ,	11.20.83/ 15/09	V V		*							
3.	173										
4.											
5.	考虑							·			
6											
7.	l hat					017					
8.	1-1-										
9.	7				6						
10.	24 S				22						
	11 11		·		3			·			
Relinquished By:	rmmy 58	Date: 102575	Time/715	Received By:			Date:	Time:			
Relinquished By:	24	Date:	Time:	Received By:			Date:	Time:			
Relinquished By:	を変	Date:	Time:	Received By La	ibi/		10/20/95 Date:	Time: 17:13			
Were Samples Receiv	red in Good Condition 2 🗆 Y	es □ No Sa	imples on Ice	? □ Yes ¤ No Me	/.	nent		Page $ ot f ot ot $			
To be completed upor 1) Were the analy 2) Was the repor	n receipt of report: yses requested on the Cha t issued within the requeste	in of Custody report	rted? 🖸 Yes 0 ? 🗀 Yes 🗅 No	No If no, what and	alyses are sti	Il needed?					
· ·	· ioodod iiiiiii iio ioquosic			•	•			Da			

SITE INFORMATION FORM		
<u>Identification</u>	Project Type	
Project # 310 OS8 5A	1st Time Visit	Client P.O.C.:
Station #	Quarterly	Date of Request
Site Address: <u>いれのでAと</u>	1st 2nd 3rd 4th	
\$ 376 LEWELLING ROOF	Initials Data	Ideal field date(s):
SAM LORENZO	Monthly	
County:	SETEMONTHLY RY 11/6/95	Check Appropriate Category
Project Manager: Charle	□ vegy/Dist. <u>2-1</u> ↓	Budget Hrs.
Requestor:	One time event	Actual Hrs.
Client: ONOCAL	Other:	Mob de Mob
Field Tasks: For General Descricte one:	scription	OrnuE) = 10:00
	ne within 24 hrs); 2. (next visit); 3. (v	vhen zvailable) = 13:00
INSTALL SEC, CO PORCHUSE + INSTAL TO GWJ PANEL LEAUE AIR + WA	(TERMINAL BLOCK, ACROSS	N SITE IN PANEL (M CATE
amments, remarks, etc. from Field	Staff (include problems encountered	and out-of-scope work)
10/01/7EY = 000	4040 X 5 A	Ull Drums Insin
DOURS = DAZZA	Treat	MENT COMPANY
Uac. = 41	* CICKED DILUTION	1 Wix StickTuits
	INSTEASE WE	1 FIEID INC Th 57
Samples taken Samples not	required 🔲 Soil Vapor 🔲 Groundw	vater
Weekly Semi-Monthly	Monthly 🔲 Quarterly 🔲 Semi-A	nnual ·
ACIIFIC ENVIRONMENTAL GROUP	, INC. Completed by:	19 Date: 10/30/95

					•							
Company Name: 777.	EDU.	シング.	-	F	Project Na	me: / _	7/	10	k-1/	inc	Rh	n. Con/
Address: 255	FUNC	11. 11	1/1/1		JNOCAL I	Project Ma	anager:		α 2	2710	<u> </u>	2 Mino
City: 201-105-	State:	77.	Zip Code:	77 11	Release #:		<u></u>				/	•
Telephone: 4)8/44/	2511	FAX #	11 - 11	11-1-11			<u>-7)</u>	78.	2//			· · · · · · · · · · · · · · · · · · ·
	100 t		708/1	2 / 7	Site #: 5				·			
Report To:		mpler:	OYK		C Data:		O (Stand	ard)	Level	С	Level I	B 🖸 Level A
Time: 2 Work Da	ays 🚨 5 Work	cDays □ 3 cDay □ 2			nking Wat			[Analyse	s Requ	ested	
CODE: Misc. Detect					ste Water	Kix					/ /	
		atrix # of		 	CWS/	1815.	/ /	/ /		/ /		/
		esc. Cont		Laboratory Sample #	10	X /	. /		/ ,	/ /	/ /	Commen
1. INFL WA	25 1	13 3	Ua	•	124							
2. EFFL SOL	1505	VV	T V									
3.		V										-
4.												
5,						 -						<u> </u>
· · · · · · · · · · · · · · · · · · ·								_				
					 							
3.						<u> </u>				_		<u> </u>
).						_						
10.												
	·	1		· · · · · · · · · · · · · · · · · · ·			<u>l </u>					
Relinquished By:	LN	Da	e/0/3/95	Time: 7: 41	Receive	ed By:				Date:		Time:
Relinquished By:		Da			Danis		<u>-</u>					
·		Da		Time:	Receive	а ву:				Date:		Time:
Relinguished By:		Da	e:	Time:	Receive	d By Lab	<u> </u>		·	Date		Time:
Vere Samples Received in G	ood Condition?	? 🔾 Yes 🔾 N	o Sa	mples on Ice?	🗅 Yes 🗘 l	Vo Meth	od of S	hipmeı	nt			Page of
To be completed upon receip 1) Were the analyses re 2) Was the report issued Approved by:	quested on the d within the requ	uested turna	around time?	☐ Yes ☐ No	if no, what	was the t	yses are turnaro	e still n und tim	e?			

5 £

White Copy - Originator

Work Order # 4340

Pink Copy - File

SITE INFORMATION FORM										
Identification	Project Type	small, the								
Project # 310 058 3A	1st Time Visit	Client P.O.C.: TINA BORRY								
Station # <u>5760</u>	Quarterly	Date of Request								
Site Address: ONOAC	1st 2nd 3rd 4th	Ideal field date(s) 1/30								
376 LEWELLING BUD	Monthly initials Date									
SAN FOREHSO	military Date	Charle Annuantiata Catanan								
County	F/S - 13 124495	Check Appropriate Category								
Project Manager: CRK	Weekly Convinient	Budget Hrs.								
Requestor:	Convidist FI 4	Actual Hrs. 3.0								
Client: ONSCAS	Other:	Mob de Mob/_5								
Field Tasks: For General Descr	iption									
circle one: Priority: 1. (emergency, must be done)	within 24 hrs); 2. (next visit); 3. (when available)								
SEMI - MONTHLY: PATA COLLECTION SYSTEM OPTIMIZATION										
FILL OUT ATTACHED DATA SHEET COMPLETELY										
OPTIMIZE GWI/SVE SYLTEMS										
		· · · · · · · · · · · · · · · · · · ·								
	FLO. READINGS FROM COMPHANCE (MOST BET	- 1 1								
	TAKE INFL + EAST G	7								
	ACYJIS (SEQUOIA) TPH-9	- 17								
	M REGULAR SEMI-MABOUET ON FIEWO PA									
	IFC AIR BAG- SEGOWA									
Comments, remarks, etc. from Field S	taff (include problems encountered									
- RESTART SYSTEM AFTER FLI - RIOMMIND REPLACING O		0-2 H2O FOR BETTER								
RESOLUTION - 0,2" FLO										
Samples taken	quired 🖫 Soil Vapor 🖫 Ground	water								
Weekly Semi-Monthly	Monthly 🔲 Quarterly 🔲 Semi-	Annual								
	Completed by: SUN	Nappex Date: 1/-30.95								
PACIIFIC ENVIRONMENTAL GROUP, IN		<u> </u>								

Yellow Copy - O & M Tech

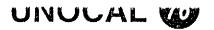
Soil Vapor and Groundwater Extraction System Unocal Service Station 5760 376 Lewelling Boulevard San Lorenzo, California 310-058.5A

1			•	/
Name: Off	NADDX	<u> </u>	_Date/Time;	75/0740
TDE ATLANTAGE				- / · · · ·
TREATMENT SYS	TEM READING	S		
SVE Operational	1		Taure 5	
Upon Arrival?	CAUSE FOR	SHOTDOWN	GWS Operational Upon Arrival?	Jax No (Ste Sve)
Liquid Carbon #1	,	RESTARCO	SVE Blower Hour	
Pressure (psi)	4 psi	Halt Filter Pressure?	Meter Reading	00927.30
Liquid Carbon #2			Total Vacuum from	
Pressure (psi)	2 ps;		Wells (" of H20)	60"H20
Electric Meter	600 - 6	1 1/1	Manual Air Dilution	
(kw-hrs)	0206	Kwhr.	Valve Position?	Closed
SVE Total Air Flow	0.2 = 4	Octor	Post-Dilution SVE Air	21/1/
To Carbon (cfm)	1 U.Z = T	09,	Flow To Carbon (cfm)	0,2 = 40cfn
GWS Totalizer	martite	1	Bag Filter Pressure	00
gallons)	000775	f	(psi) Filt Changed?	26 ps: / Gps;
			,	BEKONE AFTER
2000		<u> </u>		CHANGE CHANGEOUT
GWS Second Cont. Switch Operational?	YES	•	Was the Oil Changed	GREASED DRIVE SIDE
mich Operational?	(6)	•	1 11.0,,,,,,	BEARWGS, SEE BELOT
VE Influent			Blower? SVE Effluent	1000
ID Reading (ppm)	WC=125	wc=250	FID Reading (ppm)	MIP WC = 60 WOC= 91
			/	GFR WC=/65 WOC=/9
- BLOWER				755 77,
- Damp 1	AM DERAG.	E DRAW =	204.	•

=3.48 - PUMP2 "

- NEED REPLACEMENT FILTERS ROSEDALE O"X30"

- VAPOR RECIRC OPEN ~ 70% BLOWER OIL - AEON PD BLOWER LUBRICANT 4500-7500 HRS) GARDNER DENVER IMD 1-800-245-4946, SUTORBILT BLOWER GABLBLA MODEL.



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Company Name:	CIFIC GUVIRO	NMENT	n Gre	nue		Project	Name	:34	6 LGO	WELL!	NG b	ZVD	SA	U Lex	EN70		
Address: 2025 GA	AGWAY PL. STE	440	<u> </u>			UNOC	\L Proj	ect Ma	anager	: 17	UA	BCR	RY	· · · · · · · ·			
city: SAN JOS			•	Żip Code:	9,51/0	Releas							- -				
Telephone: 408 4				441-75	33	Site #:									·		
Report To: MREE	DODEN	Sample	: Clory	J MADOOX	(QC Da	a: 🐠	Level I	D (Stand	dard)	☐ Lev	el C		Level E		Level A	
Turnaround 🔼 10 V	Vork Days □ 5 V ork Days □ 1 V				1	orinking V Vaste W		<u> </u>	/	/	Analy	ses F	Reques	ted		_	
CODE: ☐ Misc. ☐						\sim	. (/										
Client Salmple I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laborato Sample	y #			//		//	//	//	//	/ °	omments	
1. INFL	11.30940940	W.	က	VOA/Hd		Z											
2. GFFL	11.3095/0935	<u> </u>	ನ	VV		0			ļ	<u> </u>	ļ					·	_
3.	/						ļ	<u> </u>		<u> </u>		<u> </u>					4
4.	,						ļ		ļ. ·		ļ	ļ				• • • • • • • • • • • • • • • • • • • •	_
5.	,								<u> </u>	ļ						<u> </u>	
6.							1	-		-	ļ	-	 				_
7.							-		-		1						
8.							 	ļ	-		 		<u> </u>	·			\dashv
9,					,		-	-	1	-		 			,		\dashv
10.					, , , , , , , , , , , , , , , , , , ,		J	J	J	<u> </u>	1						
Relinquished By:	alladox		Date	:11.30.95	Time:)/20	Rec	eived (3у:					Date:		Time:		
Relinquished By: _			Date	:	Time:	Rec	eived f	Зу:					Date:		Time:		
Relinquished By:			Date	:	Time:	Rec	eived E	3y Lab):				Date:		Time:		╝
Were Samples Receiv	ed in Good Condi	tion? Q Y	es 🔾 No	Sa	mples on Ice	? ⁄ 2 T Yes	O No	Met	hod of	Shipm	nent C) જ (<u>ج</u> و		Page	_/of_/	
2) Was the repor	n receipt of report: yses requested or t issued within the	the Cha requeste	ed turnar	stody repor	ted? □ Yes	□ No If i	no, wha	at ana as the	lyses a turnar	are stil ound f	I neede	∍d? –					_

UNUCAL W	U	N	J	ĴΑ	L	V(C)
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Q 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: PAe	159C GURBA	JAGUTAL	-Geni	P			Project I	lame:	37	161	2 .0			7			,		7
Address: 2025 GAR	GUAY PL. S	TE 440	<u> </u>				UNOCA	_ Proie	ct Ma	nager	Juen -		<u>اللاا د</u>	<u> </u>	AN LC	sken,	_0		\dashv
City: JAN JOSÉ		CA.		Zip Code	95110		Release	#	210	<u>- ش</u>	<u> </u>	<u> </u>	ISGR	RY				 ,	-
Telephone: ५०६ ५५।	1-7500		=AX #:	441.	1539		Site#:				المرازي المرازع)/·T						<u> </u>	- 1
Report To: MACEC TO	-nen	Sampler												·					- ₹
Turnaround 10 Wo	ork Days 🛚 5 V	Vork Days	□ 3 W	Vork Davs			QC Data		evel D	(Stand		☐ Lev			Level B		Level	Α .	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
Time: 2 World	k Days 🔲 1 V	Vork Day	2-8	Hours	· [7 W	inking W ast e W at	ar /	7.	/		Analy	ses Re	equeste	ed			:	٠
CODE: A Misc. D D	etect. 🗀 Eval.	Remed	l. 🔾 De	mol. 🚨 C	لر losure	 ∄⁻'Ω!	her C	1/2	<i>T/</i>										
Client Sainple I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Labor Samp	atory					//	. /	//		//		Comme	n to	7
1 INFL /	11.30.95/090	MAR	1	TEDLAR	1			- 					\leftarrow	<u> </u>	/ 	4	_	ints —	- 2
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Relinguished By:			Date:		Time:		Receiv	ed By	l ah·										≥
Vere Samples Received	in Good Conditio	on? 🖸 Yes	□ No	Sai	mples on I	ce?	_			d of Sh	nipmer	nt Co		ate: 2		Time:	1 01	7	l
To be completed upon re 1) Were the analyse: 2) Was the report iss Approved by:	s requested on t sued within the r	he Chain equested	of Custo Iurnarou	ody report	ed? 🖸 Ye	es 🗅 N	No Ifno,	what a	nalys	es are			-				eof_	-	

HELD SERVICES / O&M REQUEST

953969 Work Order # 43+0

SITE INFORMATION FORM		JIMZ							
Identification <a< td=""><td>Project Type</td><td></td></a<>	Project Type								
Project # 310058 ZK	1st Time Visit	Client P.O.C.:							
Station #	Quarterly								
Site Address: () NOCAC	1st 2nd 3rd 4th	Ideal field date(s): //30							
376 LEWELLING BUD.		Ideal field date(s): //30							
LAN FORENZO	Monthly Initials Date	2							
County:	Semi-Monthly 24 12/14/95	Check Appropriate Category							
Project Manager: ORK	Weekly Copy/Dist. & w/15/6	Budget Hrs.							
Requestor:	One time event	Actual Hrs							
Client: ONOCAC	Other:	Mob de Mob 1.5							
Field Tasks: For General Descr	iption								
circle one:	-								
Priority: 1. (emergency, must be done		•							
SEMI - MONTHLY!	PATA COLLECTION SYLT	EM OPTIMIZATION							
OPTIMIZE GOSS/SVE SYSTEMS									
MONTHLY: SUE =>	EID 9540(E0	Alle Alle (
CAPASI	FID READINGS FROM, COMPLIANCE (MOST BET)	INTC, MID-1, ELFL FOR							
GWS =7	TAKE INFL + EFFL WA	ITER SAMPLES FOR							
PERFORM	ACVSIS (SEQUOIA) TPH-9/ M REGULAR SEMI-MO	· · · · · · · · · · · · · · · · · · ·							
• "	BOVET ON FIELD DAT	NTHLY TASKS							
TAKE IN	IFL AIRBAC-SEGOODA M	NACHT- TPH- 4/BYEX							
Comments, remarks, etc. from Field St — TIGHTGUED BLOW — REPLACED BLOW WITH 10 AMP	taff (include problems encountered a WCR DRIVE BELTS N IAMP FUSE FOR FUSE.	MOTRANSFER PUMP							
Samples taken Samples not req		ater							
Weekly Semi-Monthly	Monthly Quarterly Semi-Ar	nnual							
PACIIFIC ENVIRONMENTAL GROUP, IN	Completed by:	19005X Date: 12.8.75							
THE PROOF IN	Checked by:								

Soil Vapor and Groundwater Extraction System Unocal Service Station 5760 376 Lewelling Boulevard San Lorenzo, California 310-058.5A

Name: John	M-1000X	Date/Time: 12.8.	95/0855
TREATMENT SYST	EM READINGS		
SVE Operational Upon Arrival?	KS.	GWS Operational Upon Amival?	163
Liquid Carbon #1 Pressure (psi)	35ps;	SVE Blower Hour Meter Reading	01120,26
Liquid Carbon #2 Pressure (psi)	2 psi	Total Vacuum from H Wells (" of H20) Pofo	152"Hzo / 68" 152"Hzo / 64"
Electric Meter (kw-hrs)	02491 Kwhr	Manual Air Dilution Valve Position?	CLOSED
SVE Total Air Flow To Carbon (cfm)	0,10=28-1-/	Post-Dilution SVE Air Flow To Carbon (cfm)	NO DILUTION .
GWS Totalizer (gallons)	0009,171	Bag Filter Pressure (psi). Filt Changed?	4psi/NO, ok
GWS Second Cont. Switch Operational?	6K :	Was the Oil Changed This Month on Blower?	NO-OK
SVE Influent FID Reading (ppm)	WC=30 woc=37 ppm	SVE Effluent FID Reading (ppm)WC	-20рт пъс=36ррш

HIELD SERVICES / O&M REQUEST

Work Order # 4 3 4 0

SITE INFORMATION FORM		
<u>Identification</u>	Project Type	
Project # 310058 3A	1st Time Visit	Cliana B.O.C.
Station #	Quarterly	Client P.O.C.:
Site Address: ()NOCAC	· · · · · · · · · · · · · · · · · · ·	Date of Request
376 LEMENTING BOO	1st 2nd 3rd Ath	Ideal field date(s): 1//30
SAN FORENSO	Monthly Initials Date	
County:	Setty-Monthly & w/24/as	Check Appropriate Category
Project Manager: CRK	Copy/Dist 24	Budget Hrs.
Requestor:	One time event	•
Client: ONOCAC	Other:	Actual Hrs. 2.0 Mob de Mob 1.5
Field Tasks: For General De	scription	
circle one:		
Priority: 1. (emergency, must be do	one within 24 hrs); 2. (next visit); 3. (v	vhen available)
SEMI - MONTHLY!	PATA COLLECTION 141	TEM OPTIMIZATION
	FILL OUT ATTACHED DAT	A SHEET COMPLETELY
	OPTIMIZE GUST SAE ZA	STEMS
MONTHUS: SUE =	FID READINGS FROM	INFL (MID-1) EFFL FOR
TEMPA	O COMPLIANCE (MOST BET	
<u>GWS =7</u>		ATER SAMPLES FOR
PELFO	RM REGULAR SEMI-MO	RTEX EFFL pH, Temp -> Record
	ABOVE + ON FIELD PAT	
	INFU AIR BAL! SECONA M	
Comments, remarks, etc. from Field	Staff (include problems encountered	
	RANDONN IN U-LAN U-	5 ane vaces
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,) 0000 0000
Samples taken Samples not	required Soil Vapor Groundw	ator
Weekly Semi-Monthly	Monthly Quarterly Semi-A	nnual
PACIIFIC ENVIRONMENTAL GROUP	Completed by: John Ma	Date: 12.27.95
	Checked by:	

Soil Vapor and Groundwater Extraction System Unocal Service Station 5760 376 Lewelling Boulevard San Lorenzo, California 310-058.5A

ŗ				
Name: Oth	U MADDOX	·	_ Date/Time;	7-95/1000
TREATMENT SYS	TEM READINGS			
SVE Operational Upon Arrival?	18		GWS Operational Upon Arrival?	48
Liquid Carbon #1 Pressure (psi)	3.psi		SVE Blower Hour Meter Reading	01576.71
Liquid Carbon #2 Pressure (psi)	-2psi		Total Vacuum from Wells (* of H20)	67 160 Before FILTER
Electric Meter (kw-hrs)	03707		Manual Air Dilution Valve Position?	FULLY CLOSED
SVE Total Air Flow To Carbon (cfm)	0.14/160=346	m.	Post-Dilution SVE Air Flow To Carbon (cfm)	SAME ASTOTAL FLOW
GWS Totalizer (gallons)	0015031 GAZ		Bag Filter Pressure (psi). Filt Changed?	SOPSIN/SPSIOUT
GWS Second Cont. Switch Operational? SVE Influent	Y68		Was the Oil Changed This Month on Blower?	No
FID Reading (ppm)	Wo	· · / C	SVE Effluent FID Reading (ppm) //	WC= Fame WOC= 17pm
Effl. PH	7.05		GWS EFFL. Temp	64.2°F
DWZB	SU1= 17.50 U3= 16.53	3		DRAW N 3, 20 AMPS -INCL BRIEFLY- WOODN OBSERVED

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		LI 1900 Bat	es Ave., S	iulie LM • Co	ncord, CA 9452	0 • (510) E	86-9600	י מ	15055	S.W. Se	quoia Pk	wy, Sulte	9 110 • P	orlland, C	OR 9722	2 • (503) 624-980	ю
Company Name:	PICCHURONY	nenthr	GRON)P		Projec	l Name	: 35	61	CIJE	7 ()	V.	RIV	10 - C	4011	Lacen7c	रा
Address: 2025	SATEWAY	PL	<u>डाट</u>	440		UNOC	AL Pro	ject Ma	anager		NA		1 20 1	1	110 /	and of C	4
City: JAN JOSE	State:	C4		Zip Code:	95110	Releas	e#: /	210	-05	58.5	<u> </u>	1	-21	J -			
Telephone: 408 4	41-7500		FAX #:		7539	Site #:	57	60			<u> </u>						Client
Report To: WARE			Ja	in M		QC Da	ı) (Stand	dard) [El Love	nl C	[7]	Level B	· ·	Level A	$\exists \frac{\circ}{2}$
Turnaround →2-10 W		Vork Days	□з∨	Vork Days		Prinking ' Vaste W	Water	/) (Stanc	Jaio) .			equest		, ,	T Level A	 i <u>:</u>
CODE: 🗆 Misc. 🚨	Detect. 🛭 Eval	Remed	l. 🖸 De	mol. 🗀 C				\mathcal{H}									
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laborator Sample			*/					//	//		Comments	7.
1. INFL	12.27.95/1110	AIR	_/_	TEOLAR		X									/		宣
2. MID	/1140		1 -			$\bot X$,	- Laboratory
3. 68FC	V / 1135			¥											- La		
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Relinquished By: 1			Date:		Time:	Rec	eived E	Ву:				Di	ate:		Time:		White
Relinguished By:			Dale:		Time:	Rec	eived E	By Lab:				D	ate:		Time:		7
Vere Samples Receive	d in Good Condit	ion? 🗅 Ye	s 🔾 No	Sa	mples on Ice	? 🗀 Yes	C) No	Meth	od of S	Shipme	ent <i>C</i>	<i>معد</i> ر		_		je Lol L	
To be completed upon 1) Were the analy 2) Was the report Approved by:	ses requested on	requested	lurnard	tody repor ound time? ignature:	'U Yes U No	No Ifr Ifno, v	no, wha	it analy	urnaro	e still r und tin	needed	J?			·	ato:	

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 ☐ East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200



U 819 Striker Ave., Suite в • Sacramento, CA 95834 • (916) 921-9600 □ bast 11115 Monigomery, быне в • Брокапе, ууд ээсоо • (эоэ) эсч-эсоў

1900 Bates Ave., Suite LM	 Concord, CA 94520 • (510) 686-9600 	97222 • (503) 624-980

																_		
Company Name: Dec	Project Name: 376 LEWELLING BLVD SAN LOPENZO:																	
Address: 2025 C	UNOCAL Project Manager: TWA BERRY																	
City: Sm Sosé State: CA Zip Code: 95110							Rolease # 210-056 -											
Telephone: 406 H41-7500 FAX#: 441-7539							Site #: 5760											
Report To: MARCE	16.4				QC Data:											Pizk - (
	Vork Days 🗀 3 Work Days					inking Water Analyses Requested										ı ë		
Time: 🔲 2 Wo					/aste Water													
CODE: 🗅 Misc. 🗅	Detect. 🚨 Eval.	Reme	d. 🗅 De	emol. 📮 Cle		the GV		<i>\$</i> /			/	/ ,		/ ,	//			
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Typę	Laborator Sample f	y /		//					/		Co	mments		
1. INFL	12.27.8/1055	W	3	Var/Hd		X						Í			<u></u>		to Z	
2. GFD	1/1050	1	.3	VV		R											Laboratory	
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4.																	Yellow	
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Relinquished By: Stulle lox				Date: 12.28.95 Time: (770			D Received By:						Date: Time:				lab Lab	
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Relinquished By:				9:	Time:	Hece	Received By:					Da	ite:		Time:		₹	
Relinguished By:			Date		Time:	Received By Lab: Date:									l			
Were Samples Receiv	ed in Good Condi	ition? 🗆 Y	es 🗀 No	Sa	imples on Ice	? 🗓 Yes	© No	Met	hod of S	Shipme	ent <u>Co</u>	ملادة	<u>1</u>		Page	L of _/		
To be completed upor 1) Were the analy 2) Was the report Approved by:	yses requested or t issued within the	n the Cha requeste	ed turna:	round time?	? 🗀 Yes 🗀 No	o If no, w	hat wa	as the	turnard	ound tir	me?		·	· - · · - · · · - · - · - · · · · · · ·				
Lybhiolog ph			· · · · · · · · · · · · · · · · · · ·	ga.a					ייניים אי							·	1	