



PACIFIC ENVIRONMENTAL GROUP, INC.

2198.17

November 13, 1992
Project 330-06.12

01-0092

Ms. Susan Keach
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, California

CALIF. REG. WATER
NOV 13 1992
QLTY. CONTROL BOARD

Re: Discharge Permit 90-073-91
ARCO Service Station 608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Keach:

This letter transmits treatment system operational and analytical data for the period between September 15 and October 16, 1992 for the above referenced site. Pacific Environmental Group, Inc. submits this data on behalf of ARCO Products Company.

Treatment System Status: Operational
Total Volume Discharged: 115,983 gallons
Average Flow Rate: 2.6 gallons per minute
Analytical Results: Attached

During the reporting period, the treatment system was in compliance with our discharge permit. If you have any questions regarding this project, please call.

Sincerely,

Pacific Environmental Group, Inc.

John W. McCulloch
Operations and Maintenance Coordinator

Keith Winemiller
Staff Engineer

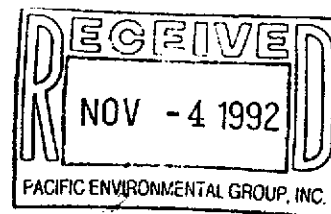
Attachments: Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. Eddy So, Regional Water Quality Control Board



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689



Pacific Environmental Group 620 Contra Costa Blvd., #209 Pleasant Hill, CA 94523 Attention: Dan Landry	Client Project ID: #0608-91-5 / Arco #0608 / #330-06.12 Sample Matrix: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 210-0477	San Lorenzo	Sampled: Oct 16, 1992 Received: Oct 16, 1992 Reported: Oct 29, 1992
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TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 210-0477 INFL	Sample I.D. 210-0478 EFFL
Purgeable Hydrocarbons	50	N.D.	N.D.
Benzene	0.5	N.D.	N.D.
Toluene	0.5	N.D.	N.D.
Ethyl Benzene	0.5	N.D.	N.D.
Total Xylenes	0.5	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	10/16/92	10/16/92
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	110	112

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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Karen L. Enstrom
Project Manager



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Pacific Environmental Group 620 Contra Costa Blvd., #209 Pleasant Hill, CA 94523 Attention: Dan Landry	Client Project ID: #0608-91-5 / Arco #0608 / #330-06.12 Sample Descript: Water, EFFL Lab Number: 210-0478	San Lorenzo	Sampled: Oct 16, 1992 Received: Oct 16, 1992 Analyzed: 10/22-10/27/92 Reported: Oct 29, 1992
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LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Chemical Oxygen Demand.....	20	N.D.
Total Suspended Solids.....	1.0	N.D.

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

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Pacific Environmental Group 620 Contra Costa Blvd., #209 Pleasant Hill, CA 94523 Attention: Dan Landry	Client Project ID: #0608-91-5 / Arco #0608 / #330-06.12 Sample Descript: Water, EFFL Lab Number: 210-0478	San Lorenzo	Sampled: Oct 16, 1992 Received: Oct 16, 1992 Analyzed: Oct 19, 1992 Reported: Oct 29, 1992
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LABORATORY ANALYSIS

Analyte	Detection Limit	Sample Results mg/L
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pH	N/A	7.3
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Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group
620 Contra Costa Blvd., #209
Pleasant Hill, CA 94523
Attention: Dan Landry

Client Project ID: #0608-91-5 / Arco #0608 / #330-06.12, San Lorenzo

QC Sample Group: 2100477-478

Reported: Oct 29, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Chemical Oxygen Demand	Toluene	Ethyl-Benzene	Xylenes	Benzene	pH	Total Suspended Solids
Method:	EPA 410.4	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 8015/8020	EPA 9040	EPA 160.2
Analyst:	Alan Kemp	J.F.	J.F.	J.F.	J.F.	B. Pascalli	B. Pascalli
Reporting Units:	mg/L	µg/L	µg/L	µg/L	µg/L	N/A	mg/L
Date Analyzed:	Oct 27, 1992	Oct 16, 1992	Oct 16, 1992	Oct 16, 1992	Oct 16, 1992	Oct 19, 1992	Oct 22, 1992
QC Sample #:	210-0478	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	210-0478	210-0468
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	7.3	21
Spike Conc. Added:	250	20	20	60	20	N/A	N/A
Conc. Matrix Spike:	250	21	22	62	23	N/A	N/A
Matrix Spike % Recovery:	100	105	110	103	115	N/A	N/A
Conc. Matrix Spike Dup.:	250	22	23	66	18	7.3	21
Matrix Spike Duplicate % Recovery:	100	110	115	110	90	N/A	N/A
Relative % Difference:	0.0	4.6	4.4	6.2	24	0.0	0.0

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

