



20255

July 21, 2004

Mr. Jeff Carson
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, CA 94580

**Re: Special Discharge Permit Application
Discharge Permit #SDP-037
ARCO Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California**

Alameda County
JUL 21 2004
Environmental Health

Dear Mr. Carson:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the completed *Special Discharge Permit Application* along with a check of amount \$594.00 towards the permit renewal fee.

If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-1781.

Sincerely,

URS CORPORATION

Shanthi Sambathkumar
Environmental Engineer

cc: Mr. Paul Supple, ARCO, (electronic copy submitted to ENFOS)
Mr. John Kaiser, Regional Water Quality Control Board - San Francisco Bay Region, 1515
Clay Street, Suite 1400, Oakland, CA 94612
Mr. Robert Shultz, Alameda County Environmental Health, 1131 Harbor Bay
Parkway, Alameda, CA 94502



**ORO LOMA SANITARY DISTRICT
SPECIAL DISCHARGE PERMIT APPLICATION**



Section I: General Condition

1. Applicant Business Name: ATLANTIC RICHFIELD COMPANY (RM) A BP AFFILIATED COMPANY
2. Applicant Address: P.O. BOX 6549
City / State / Zip: MORAGA, CA 94570
3. Name of Environmental/engineering Firm Representing Applicant
URS CORPORATION
4. Environmental / Engineering Firm Address
Street: 1333 BROADWAY, SUITE 800
City / State / Zip: OAKLAND, CA 94612
5. Person to Contact About the Application
Name: SCOTT ROBINSON Title: PROJECT MANAGER Date: 07/21/04
6. Person to Contact in case of Emergency
Name: SCOTT ROBINSON Title: PROJECT MANAGER
Day Phone: (510) 874 - 3280 Night Phone: (510) 874 - 3280

Certification

I certify that the information contained in this application is familiar to me and to the best of knowledge, such information is true, complete and accurate.

Robert M. Horwath

Signature

7/21/04

Date

Robert M. Horwath

Print Name



**ORO LOMA SANITARY DISTRICT
SPECIAL DISCHARGE PERMIT APPLICATION**



Section II: Site Information

1. Name and Address of Remediation Site

Name: ATLANTIC RICHFIELD COMPANY SERVICE STATION #608

Street: 17601 HESPERIAN BLVD @ HACIENDA AVE

City / State / Zip: SAN LORENZO, CA

2. Discuss the nature of the problem and state the reason(s) why there is no reasonable alternative but to discharge into the wastewater system. Attach additional pages as necessary.

TREATMENT SYSTEM DIDNOT UNDERGO ANY MODIFICATION
AND REMAINS AS PERMITTED UNDER PERMIT # SDP037
REFER TO PERMIT # SDP037

3. Site Description

- A) Provide a map showing the location of the site
- B) Provide a diagram showing location of all monitoring wells, treatment unit and connection point to the District sewer system.
- C) Provide copies of laboratory analysis of pollutant concentration.

4. Wastewater Flow Information

Estimated Discharge Flow Rate	<u>1.50</u>	(gal/min)
Peak Hourly Flow Rate	<u>2.0</u>	(gal/min)
Maximum Daily Flow Rate	<u>1.90</u>	(gal/min)

Estimated Duration of Discharge SYSTEM OPERATING 24 hrs/day



ORO LOMA SANITARY DISTRICT SPECIAL DISCHARGE PERMIT APPLICATION



Section III: Treatment System Information

1. Provide a narrative description of treatment system. Be sure to include the following information. (Use additional sheets if necessary)
 - A. Describe how the groundwater will be treated; best availability technology is required.
 - B. Describe the efficiency of the treatment unit.
 - C. Describe where and how it will connect to the District's sewer system.
 - D. Describe emergency procedures / security provisions.

TREATMENT SYSTEM DIDNOT UNDERGO ANY MODIFICATION
AND REMAINS AS PERMITTED UNDER PERMIT# SDPO37
REFER TO PERMIT # SDPO37

2. Please attach a detailed drawing of the treatment plant system.

Check Date - 7/20/04



Check No - 357944

Sub 1 of 1

Voucher#	Invoice#	Date	Remarks	Inv. Amount	Discount	Net Amount
877989	071404CK	7/14/04	Permit Renewa	594.00	.00	594.00

Total Amount 594.00 594.00

Payee: 1122588 Oro Loma Sanitary District

REMOVE DOCUMENT ALONG THIS PERFORATION

THIS DOCUMENT IS PRINTED IN TWO COLORS. DO NOT ACCEPT UNLESS BLUE AND GREEN ARE PRESENT.



Wells Fargo Bank, N.A.
 404 West Broadway
 Lewistown, MT 59457-2625

92-516
929

Check #	Date
00357944	7/20/04

Amount
\$*****594.00

P.O. Box 201088 Austin, TX 78720-1088
 512-419-6600

PAY : FIVE HUNDRED NINETY FOUR AND 00/100*****

TO : Oro Loma Sanitary District
 2600 Grant Ave
 San Lorenzo CA 954580-1838

URS CORPORATION

Ken Quinnett

VOID AFTER 180 DAYS FROM DATE OF ISSUE

⑈00357944⑈ ⑆092905168⑆ 4990 001739⑈



P.O. Box 201088
 Austin, TX 78720-1088

Oro Loma Sanitary District
 2600 Grant Ave
 San Lorenzo CA 954580-1838

SEE REVERSE SIDE FOR OPENING INSTRUCTIONS

SEE REVERSE SIDE FOR OPENING INSTRUCTIONS

FORM 6136-4222 (2/03) SECURITY MARKS Patents 5,018,767; 5,193,863; 5,737,043. Fictitious Seal 4,916,128 - 02/1

CG11Z

MOORE SECURITY MARK™ • MOORE SECURITY MARK™ • MOORE SE

Ru.255

Chu, Eva, Env. Health

From: Chu, Eva, Env. Health
Sent: Monday, June 02, 2003 11:17 AM
To: Supple, Paul (E-mail)
Cc: Scott_Robinson (E-mail)
Subject: Arco 608 at 17601 Hesperian Blvd, San Lorenzo

Hi Paul,

I completed review of URS' Fourth Quarter 2002 Groundwater Monitoring and Remediation Report prepared for the above referenced site. URS recommended reducing the sampling frequency of wells MW-9, MW-16, and MW-22 from quarterly to annually. Since MTBE is currently detected in wells MW-16 and MW-22, I will approve to reduce the sampling frequency from quarterly to semi-annually.

eva chu
Alameda County Environmental Health
Hazardous Materials Specialist
1131 Harbor Bay Parkway
(510) 567-6762
(510) 337-9335 (fax)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

STID 779

January 8, 2002

Mr. Paul Supple
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Supple:

I have received and reviewed the "Quarterly Groundwater Monitoring Report" dated December 22, 2001 submitted by Mr. Shaw Garakani of The It Group concerning the above referenced site. This report reflects the concentration of chemicals in monitoring wells as well as domestic irrigation wells.

According to this report MTBE concentration is the highest in MW-5 at 270ppb followed by MW-10 at 250ppb, and E-1A extraction well at 210ppb. There has been some oscillation in the concentrations of MTBE in some of the wells and therefore the GWET system was reactivated.

Per figure 2 within this report, groundwater flow gradient is to the west at 0.003 ft/ft.

Mr. Garakani proposed several agenda for the next quarter, which are acceptable to this office.

Should you have any questions, please call me at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Shaw Garekani, The It Group Inc., 1921 Ringwood Ave., San Jose, CA 95131-1721
Mr. Peter Langtry, Lowney Associates, 129 Filbert, Oakland, CA
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

STID 779

September 27, 2001

Mr. Paul Supple
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Supple:

I am in receipt of Quarterly Groundwater Monitoring Reports dated June 6, 2001, Groundwater Analytical Results, First Quarter 2001, and all attachments regarding Reimbursements for miscellaneous sites related to the above referenced site. All the above reports were submitted by Mr. Shaw Garakani of The It Group.

These reports reflect the efficiency of GWET system in, the concentration of chemicals in monitoring wells and domestic irrigation wells affected by the plume. I would like to make the following comments regarding the above reports:


- I understand that the GWET was reactivated due to increase in concentrations of MTBE.
- The highest concentration of MTBE within domestic irrigation well was noted at 17349 Via Magdalena, San Lorenzo at 98.3ppb.
- Per figure 2, within this report, the groundwater flow gradient is to the west at 0.003 ft/ft similar to the previous indication.
- Per this report MTBE concentration is the highest in MW-8 reduce to 188ppb compared to 243ppb previously.
- MTBE was found to be at 140 within MW-25 well.
- Benzene concentrations were all low or non-detect, with highest at EA-1 Extraction well at 1.78ppb.

Per my previous correspondence, you may reduce analysis of the well(s), which have historically shown ND or very low concentrations of chemical constituents.

I concur with Mr. Garakani regarding the work proposed for the next quarter in the same document.

Should you have any questions, please do not hesitate to call me at (510) 567-6876.

Sincerely,



Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Shaw Garekani, The It Group Inc., 1921 Ringwood Ave., San Jose, CA 95131-1721
Mr. Peter Langtry, Lowney Associates, 129 Filbert, Oakland, CA
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Stid 779

March 13, 2001

Mr. Paul Supple
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Supple:

This office is in receipt of Quarterly Groundwater Monitoring Reports dated March 7, 2001 submitted by Mr. Shaw Garakani of The It Group. Among other information, this report reflects the concentration of chemicals in monitoring wells as well as domestic irrigation wells.

Per this report MTBE concentration is the highest in MW-8 at 243ppb followed by irrigation domestic well 17349 at 197, MW-10 at 145ppb, and MW-25 at 134ppb. Since the MTBE concentration has increased in some of the wells, the GWET system has been reactivated.

Groundwater flow gradient is to the west at 0.003 ft/ft according to figure 2 of the same report.

You may propose to reduce analysis of the well(s), which have historically shown ND or very low concentrations of chemical constituents.

I do concur with the work proposed for the next quarter as indicated by Mr. Garakani in the same document.

If you have any questions, please call me at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Shaw Garekani, The It Group Inc., 1921 Ringwood Ave., San Jose, CA 95131-1721
Mr. Peter Langtry, Lowney Associates, 129 Filbert, Oakland, CA
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Stid 779

December 5, 2000

Mr. Michael Whelan
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Whelan:

I am in receipt of Quarterly Groundwater Monitoring Reports dated October 20, 2000 and November 9, 2000 submitted by Mr. Shaw Garakani of The It Group. Both reports reveal the concentration of chemicals in monitoring wells as well as domestic irrigation wells.

According to these reports MTBE concentration is the highest in MW-10 at 413ppb followed by MW-25 at 192ppb and MW-8 at 160ppb. MTBE concentration has therefore been fluctuating and slightly risen in MW-10 since the previous analysis.

I concur with the work proposed for the next quarter as indicated by Mr. Garakani in the same document.

Should you have any questions, please do not hesitate to call me at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Shaw Garekani, The It Group Inc., 1921 Ringwood Ave., San Jose, CA 95131-1721
Mr. Peter Langtry, Lowney Associates, 129 Filbert, Oakland, CA

Files



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Stid 2480

March 24, 2000

Mr. Robert A. Boust
UNOCAL-DBG/AMG
2121 North California Blvd., Suite 250
Walnut Creek, CA 94596

RE: Former UNOCAL # 2512 located at 1300 Davis Street, San Leandro, CA

Dear Mr. Boust

I am in receipt of the "First Quarter 2000 Groundwater Monitoring & Sampling Report" dated February 17, 2000 submitted by Ms. Deanna L. Harding of Gettler-Ryan Inc. Thank you for the submittal of the report. As you are aware, the concentrations of all the plume constituents were found at low levels with MW-3 well, the well with the highest concentrations of contaminants at 135 MTBE and ND levels for TPH(D), TPH(G), and Benzene.

The "other oxygenates" laboratory analysis had previously been performed as well and revealed no significant level of the analyzed constituents.

Sampling and analysis of groundwater can be discontinued at this time until further notice.

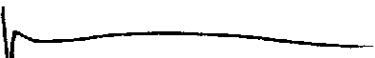
At this point, you must provide the following:

1. Documentation to reveal that PCE constituent, presently at 23ppb in MW-9 well, has migrated from off-site. This is to ensure that PCE constituent is not due to the activities and release at the above referenced site.
2. Soil/groundwater sampling analysis performed for PCE and other pertinent components as required, per Mr. Chuck Headlee of the San Francisco Regional Water Quality Control Board.

As soon as the above documentation is provided, we can proceed toward an eventual closure.

If you have any questions, please feel free to call me at (510) 567-6876.

Sincerely,


Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Gettler-Ryan Inc., 6747 Sierra Court,
Suite J, Dublin, CA 94568
✓ files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

Stid 779

March 16, 2000

Mr. Michael Whelan
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Whelan:

This office is in receipt of the Quarterly Groundwater Monitoring Report dated March 10th, 2000, submitted by Mr. Shaw Garakani of The It Group. This report indicates that the concentration of chemicals in monitoring wells and domestic irrigation wells. Per this report the most significant concentration is that of MTBE in MW-8 well which has revealed the constituent to be at 2,380 ppb. The MTBE concentration is therefore has risen since the last two analyses to this significant amount. The MTBE concentration is not only unstable but also increasing in value. I have had several discussions with Mr. Garakani regarding the risk assessment, which had been performed previously.

Please be advised that in the past, I have discussed the calculated RBSL value of MTBE (11520ppb) in your risk assessment with Mr. Chuck Headlee of the San Francisco Regional Water Quality Control Board, RWQCB. Mr. Headlee indicated concern over this calculated value as well. Additionally the MTBE plume is not only "unstable" but also "increasing" in value (from up to 380ppb Up to March 10th, 1998 to 2,380ppb in September 15th, 1999). I have even compared this value with other references and the calculated RBSL for MTBE seemed far more than the other referenced values. I understand that Mr. Garakani has indicated this office had "verbally" approved the MTBE risk assessment. However, in the light of this new information, the rise in MTBE concentration, this office would be unable to consider the case for closure at the present time.

I do concur with the work proposed for the next quarter as indicated in the same document.

If you have any questions, please call me at (510) 567-6876.

Sincerely,



Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Shaw Garekani, The It Group Inc., 1921 Ringwood Ave., San Jose, CA 95131-1721
Mr. Peter Langtry, Lowney Associates, 129 Filbert, Oakland, CA
Mr. Chuck Headlee, San Francisco RWQCB, 1515 Clay Street, Suite 1400, Oakland,
CA 94612

✓ Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL
PROTECTION

00 MAR 16 PM 4: 26

Stid 780

March 7, 2000

Mr. Scott Hooton BP Oil Company
Environmental Remediation Management
295 SW 41st Street
Renton, Washington 98055-4931

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

RE: Former BP Oil Site No. 11107 at 18501 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Hooton:

This office is in receipt of "4th Quarter 1999 Groundwater Monitoring" dated February 3rd, 2000 by Mr. Francis Thie of Blaine Tech Services, Inc. regarding the above referenced site. I have the following comments regarding the above document:

- The groundwater flow gradients portrayed on figure 1 indicates a northwesterly direction.
- The concentrations of contaminants in most monitoring wells have generally decreased, the contaminant concentration in MW-4, MW-5, and MW-6 wells are still higher compared to MW-7 well. The MTBE concentrations of 410ppb, 550ppb, and 360ppb for MW-4, MW-5, and MW-6 wells were observed respectively. The concentrations of TPHG decreased in all of the indicated wells to below 50ppb.

I will be looking forward for the next quarterly groundwater monitoring report.

Should you have any questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Francis Thie of Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112-1105
Kahled Rahman, Cambria Environmental, 1144 65th Street, Suite B, Oakland, CA 94608
Files



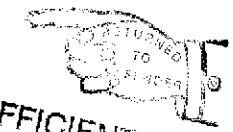
ALAMEDA COUNTY
HEALTH CARE SERVICES AGENCY
Department Of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577



Amir

LA 5/27

**KAHLED RAHMAN
1144 65TH ST.
OAKLAND, CA 94608**



INSUFFICIENT ADDRESS

94608-265926577





FAX

Date 8/25/99

Number of pages including cover sheet _____

TO: AMIR G.
ACHSA

FROM: SHAW G.
IT Corporation
1921 Ringwood Ave,
San Jose, CA 95131

Phone _____
Fax Phone (510) 337-9335

Phone (408) 453-7300
Fax Phone (408) 437-9526

CC: _____

REMARKS: Urgent For your review Reply ASAP Please Comment

Hi AMIR
Please read #4. It was nice
talking to you!

SHAW

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

July 21, 1995

Michael Whelan
ARCO Petroleum Products Co.
2155 S Bascom Avenue, Suite 202
Campbell CA 95008

StId 779

Subject: Work Plan and RI/FS revisions for ARCO Service Station
0508 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Whelan:

This office has reviewed the Work Plan and RI/FS Supplemental Information, dated June 28, 1995, submitted by Pacific Environmental Group, Inc. (Pacific).

The work plan proposes to conduct a pilot study to determine the feasibility of reducing petroleum hydrocarbon contamination in groundwater by enhancing in-situ aerobic biodegradation via installation of oxygen releasing compounds (ORC) in wells located upgradient from monitoring wells MW-8 and MW-10. Additionally, the work plan proposes to discontinue pumping of the on-site groundwater extraction well EA-1 throughout the pilot study (July 1995 through December 1995) to allow for evaluation of its affect on migration of the dissolved petroleum hydrocarbon plume and to allow dissolved oxygen to disperse downgradient in groundwater in the area of MW-8. Per the work plan, dissolved oxygen concentrations will be measured monthly in wells EA-1, SP-1, SP-2, MW-8, and MW-10. A progress report of the pilot study will be included in the third quarter 1995 report, and the analyses for groundwater parameters indicative of biodegradation, which were completed for the baseline groundwater biodegradation study in May 1995, will be repeated and reported in the forth quarter 1995 report.

The RI/FS Supplemental Information contained revisions to the November 1994 draft that included 1) a feasibility study to gather baseline concentrations of groundwater parameters to identify those parameters which may be rate limiting to natural biodegradation, 2) a risk assessment of residential indoor inhalation exposure to benzene, and 3) the inclusion of ORCs, to enhance in-situ bioremediation, to Alternative 2 of the Remedial Action Alternatives.

The Work Plan and RI/FS revisions are acceptable to this office with the following additions and/or comments:

Whelan

Re: 17601 Hesperian Blvd

July 20, 1995

Page 2 of 3

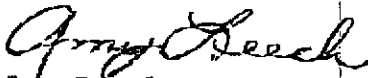
1. Based on the results of the baseline concentrations of dissolved oxygen collected from monitoring and domestic irrigation wells in May 1995, dissolved oxygen was limited throughout the entire study area, i.e. there were no "background" levels established for dissolved oxygen. This is contrary to what was stated in the RI/FS. By implementing Remedial Action Alternative 2, it is anticipated that increased dissolved oxygen levels by the use of ORC will increase the rate of in-situ biodegradation. However, if it is found from the pilot study that petroleum hydrocarbon concentrations do not significantly decline in areas of concern (i.e. the biodegradation rate for petroleum hydrocarbons does not increase), then other, more effective remedial alternatives, and possibly containment measures, should be considered and implemented.
2. In addition to conducting monthly measurements for dissolved oxygen concentrations during the pilot study, groundwater samples should be collected from monitoring wells EA-1, MW-8, and MW-10 and analyzed for TPH-g and BTEX on a monthly basis. Restarting or pulsing the groundwater extraction system may need to be considered if an increasing trend of petroleum hydrocarbon concentrations is detected.
3. Remedial Action Alternative 2 should not include that well owners be given the go ahead to begin pumping. Per the May 9, 1995 meeting, the Groundwater Management Plan will address the timing, appropriateness, and monitoring involved with health protection and plume migration in regard to allowing for pumping of the domestic irrigation wells. It seems appropriate that well owners should be asked not to pump at least through the pilot study while the on-site extraction system is turned off. During this time, careful monitoring should be performed to insure that petroleum hydrocarbon concentrations do not increase downgradient of the site.
4. We concur with the methodologies and exposure pathways evaluated in the risk assessment. (This evaluation did not include municipal/daily drinking water standards.) Based on current information at the site, it is the opinion of this agency that there is no significant public health risk in the areas and concentrations evaluated.
5. Please submit a draft copy of the "Fact Sheet" to this office for review and approval, prior to submitting it to the public. In addition, it was discussed in the May 9, 1995 meeting that a mass mailing of the "Fact Sheet" would be distributed to all properties in the affected area,

Whelan
Re: 17601 Hesperian Blvd
July 20, 1995
Page 3 of 3

including properties with and without wells. Per my recollection, you were planning to use an address list that was compiled during the initial domestic well survey. Please submit a copy of this list to our office.

Please contact me at (510)567-6755 to discuss any of the above concerns. We hope the pilot study goes well and look forward to receiving preliminary information in the third quarter monitoring report.

Sincerely,



Amy Leech
Hazardous Materials Specialist

c: Ms. Debra Moser
Mr. Keith Winemiller
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Kevin Graves
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Acting Chief of Environmental Protection - Files(ALL)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Stid 779

March 8, 1999

Mr. Kyle Christie
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Christie:

This office has not received the Quarterly Groundwater Monitoring Report since the last report dated September 30th, 1998 submitted by Pacific Environmental Group, Inc. I believe the next report was to be submitted in January 1999. Please comply with the following:

1. Submit the next Quarterly Groundwater Monitoring Report by April 9th, 1999.
2. Submit a copy of the Tier II risk assessment performed regarding MTBE in 1998.

If you have any questions, please call me at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Mr. Shaw Garekani, Pacific Environmental Group, Inc., 2025 Gateway Place, Suite 440
San Jose, CA 95110-1006
files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Stid 779

February 24, 1999

Mr. Kyle Christie
ARCO Products Company
PO Box 5077
Buena Park, CA 90622-5077

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Christie:

I will be overseeing the above case. I have received and reviewed the Quarterly Groundwater Monitoring Report dated September 30th, 1998 submitted by Pacific Environmental Group, Inc. This report indicates that the concentration of chemicals in all monitoring wells have diminished except MW-5, MW-8, MW-9, MW-10, and MW-12 (E-1A). MW-12 has the highest concentration of the constituents containing up to 11000ppb of TPH(G), 1300ppb of benzene, 550ppb of ethylbenzene, 380ppb of Xylene, and 220ppb of MTBE. The irrigation wells contain low concentrations of the constituents as well. However, the irrigation wells 633H, 17349 VM, 17372 VM have to be closely observed due to existence of some of the constituents recently. I do concur with the work proposed for the next quarter as indicated in the same document.

Furthermore, I talked to Mr. Shaw Garekani of Pacific Environmental Group Inc., regarding the above case. He informed me that a Tier II risk assessment for BTEX had been performed and approved by our office in 1993. He also indicated that a Tier II risk assessment was later performed for MTBE in 1998 and was verbally approved by Madhulla Logan of our office for the above site. In addition, Mr. Garekani requested the above case be considered for closure. **I requested him to send me a copy of the MTBE risk assessment and information regarding the "closure summary"**. Upon receipt of the above documents, I will discuss the case with Madhulla Logan of our office and will look into the possibility of closure regarding the above site.

If you have any questions, please call me at (510) 567-6876.

Sincerely,


Amir K. Gholami, REHS
Hazardous Materials Specialist

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Stid 779

February 22, 1999

Mr. Shaw Garekani
Pacific Environmental Group Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Garekani:

As we discussed, I have been assigned to oversee the above case. In our discussion you indicated that there was a Tier II risk assessment performed on BTEX which was approved by our agency in 1993. Furthermore, you indicated that risk assessment on Benzene ^{in the} was also performed on the above site in 1998. This assessment, you indicated, was verbally approved by Madhulla Logan of our office in 1998. I would like to address the following issues:

- Please send a copy of the letter of the approval for the risk assessment performed in 1993 on BTEX to this office.
- There was an error in my letter regarding Peter Lantry, the consultant for the landlord, who actually works for Lowney Associates and not for Pacific Environmental Group Inc representing ARCO.
- As you are well aware and per our discussion, the closure summary document is necessary if and when this office considers the site for closure.
- Upon receiving the above documents, I will discuss the case with Madhulla Logan of our office regarding Tier II risk assessment and your request for site closure.

If you have any questions, please call me at (510) 567-6876.

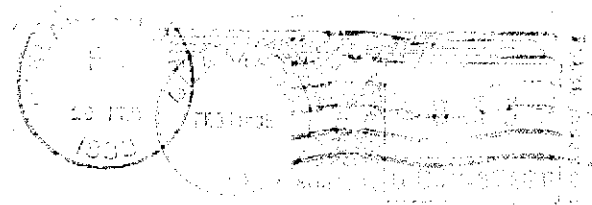
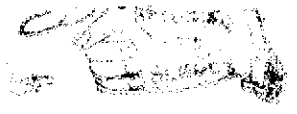
Sincerely,

✓ Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Peter Langtry, Lowney Associates, 129 Filbert, Oakland, CA files



ALAMEDA COUNTY
HEALTH CARE SERVICES AGENCY
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
4580



ENVIRONMENTAL PROTECTION
PROTECTED

99 FEB 22 PM 5:27

MR. MICHAEL WHITAN
ARCO PRODUCTS COMPANY
2000 ALAMEDA DE LAS PULGAS
SAN MATEO, CA 94402

94402-6577/6577



ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

Stid 779

February 9, 1999

Mr. Michael Whelan
ARCO Products Company
2000 Alameda de las Pulgas
PO Box 5811
San Mateo, CA 94402

RE: ARCO Service Station # 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Whelan:

I have been assigned to oversee the above case. I have received and reviewed the Quarterly Groundwater Monitoring Report dated September 30th, 1998 submitted by Pacific Environmental Group, Inc. This report indicates that the concentration of chemicals in all monitoring wells have diminished except MW-5, MW-8, MW-9, MW-10, and MW-12 (E-1A). MW-12 has the highest concentration of the constituents containing up to 11000ppb of TPH(G), 1300ppb of benzene, 550ppb of ethylbenzene, 380ppb of Xylene, and 220ppb of MTBE. The irrigation wells contain low concentrations of the constituents as well. However, the irrigation wells 633H, 17349 VM, 17372 VM have to be closely observed due to existence of some of the constituents recently. I do concur with the work proposed for the next quarter as indicated in the same document.

Additionally, I talked to Mr. Peter Langtry of Pacific Environmental Group Inc., regarding the above case. He informed me that a Tier II risk assessment has been performed for the above site. I asked Mr. Langtry to forward me a copy of this document along with the latest quarterly monitoring report. Madhulla Logan of our office will evaluate tier II risk assessment, once received.

If you have any questions, please call me at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Peter Langtry, Pacific Environmental Group, Inc., 2025 Gateway Place, Suite 440
San Jose, CA 95110-1006
files



ANALYTICAL CHEMISTRY • ENVIRONMENTAL SERVICES
GEOTECHNICAL ENGINEERING • DRILLING SERVICES
CONSTRUCTION INSPECTION & MATERIALS TESTING

FAX NUMBER: 510-337-9335

TELEPHONE NUMBER: 510-567-0700

DATE: 1-5-98

COMPANY: ALAMEDA COUNTY ENV. HEALTH DEPT.

ATTENTION: ARIU LEVI

FROM: JOHN HOWE

SUBJECT: LIST FOR FILE REVIEW

NUMBER OF PAGES BEING FAXED (INCLUDING THIS PAGE): 2

ORIGINAL TO FOLLOW IN THE MAIL? No

IF ANY PROBLEMS WITH PAGES BEING FAXED, NOTIFY: JOHN HOWE

COMMENTS:

COULD YOU GIVE ME A CALL WHEN
THESE FILES CAN BE REVIEWED

209-208-7001 EXT. 225

THANK YOU



Alameda County Environmental Health Department:

I would like to review files from the following list of 11 properties with current or former Underground Storage Tanks and 2 properties with hazardous material related incidents.

USTs LOP

✓ 5830
el
✓ 776
✓ 4217
el

San Lorenzo Village Homes Association
427 Paseo Grande
San Lorenzo, CA 94580

✓ 779
ALL

Chevron
15900 Hesperian Blvd.
San Lorenzo, CA 94580

✓ 775
- el

Mobil Service Station
15884 Hesperian Blvd.
San Lorenzo, Ca 94580

-

Arco
17200 Via Magdalena
San Lorenzo, Ca 94580

✓ 779
ALL

Arco
17601 Hesperian Blvd.
San Lorenzo, Ca 94580

-

Chevron Station #5630
997 Grant Ave.
San Lorenzo, CA 94580

-

Don Del Company
1563640 Usher St.
San Leandro, Ca

✓ 1746
all

Unocal
376 Lewelling Blvd.
San Lorenzo, Ca 94580

✓ 4082
all el

Southland Corporation
100 Lewelling Blvd.
San Lorenzo, Ca 94580

Unocal
15599 Hesperian Blvd.
San Lorenzo, Ca 94579

Ultramart Beacon
44 Lewelling Blvd.
San Lorenzo, Ca 94580

Hazardous Material Incidents

-

Pacific Bell
498 Paseo Grande
San Lorenzo, Ca 94580

(Unknown public storage facility)
15951 Hesperian Blvd.
San Lorenzo, Ca 94580

- 10/7/92

Could you please call me at 209-268-7021 Ext. 225 when the files are ready for review.

Thank you,
John Howe

CORPORATE OFFICE:
2527 Fresno Street
Fresno, CA 93721
(209) 268-7021 • Fax 268-7126

MODESTO
4230 Kiernan Ave., Suite 106
Modesto, CA 96258
(209) 545-1050 • Fax 545-1147

VISALIA
130 North Kelsey St., Suite H6
Visalia, CA 93291
(209) 851-8280 • Fax 851-8288

BAKERSFIELD
3701 Pegasus Drive, Suite 124
Bakersfield, CA 93308
(805) 393-5088 • Fax 393-4843

Letter to RP to include a paragraph on MTBE
nuisance issues.
* Need 2 hydrologic years of MTBE data before predicting/evaluating for closure.

ARCO meeting 3/18/97

MTBE

- Please Def.
- Risk (70ppb) Addendum
- Issue of nuisance (35ppb) Reg. Authority?

→ All levels are below ~~off-site~~ ~~PRG3~~ PRG3 (180ppb for drinking)
off-site.

//

→ ARCO still working toward abandoning domestic wells.
- w/this proposal to ^{well owners/} public would like
letter commenting on RA.

→ Well owner 17302 VM(?) has not agreed to "not" use well.

→ MTBE hits 17349 VM4 633H (one hit only).

→ TDS of domestic wells?

→ PEG has completed

1.8×10^{-1} ppm MTBE ingestion -

1.4×10^3 ppm inhalation (indoor)

? 1.2 x 10
MTBE Risk Assessment

Children

- Sprinkler (dermal, inhalation (close box), ingestion)
Scenario back calculate using 10^{-5} 4(.35L/day)

→ What model to use?
Ravi gave PEG description on this

~~XXXXXXXXXXXXXXXXXXXX~~

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH SERVICES

ENVIRONMENTAL PROTECTION DIVISION

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

Telephone (510) 567-6700

Fax (510) 337-9335

FAX COVER SHEET

DATE: July 23, 19 97

TO: Ravi Arulanantham

QW&CB

FAX # (510) 286-1380

Total number of pages including cover sheet 2

FROM: Amy Dech

LOP 567-6755

NOTE:

~~PLEASE RESPOND BY FAX ONLY.~~

Ravi - Please see attached draft copy of letter to ARCO

regarding your approval of their risk assessment. This
letter does not address MTBE issues. Please advise

(SMILE) HAVE A NICE DAY
DO SOMETHING FOR OUR ENVIRONMENT

us on the MTBE issue & any other comments you may
have. If possible, we would like to get a final
draft signed by you tomorrow. Can I meet w/you

at your office tomorrow?

Thank you for your assistance. Sincerely,

Amy Dech

7/23/97 - Called Ravi -
left msg fax was on its way &
to keep or call me to set up a
meeting to discuss.

WATER QUALITY GOALS — ORGANIC CONSTITUENTS

ORGANIC CONSTITUENT	Drinking Water Standards (California & Federal) Maximum Contaminant Levels (MCLs)					California Recommended Public Health Level (RPHL) Department of Health Services	California State Action Levels Department of Health Services		Other Tests & Odor Thresholds
	California Dept. of Health Services		U.S. Environmental Protection Agency				Toxicity	Taste & Odor	
	Primary MCL	Secondary MCL	Primary MCL	Secondary MCL	MCL Goal				
Dimethylbarbamoyl chloride									
1,1-Dimethylhydrazine									
1,2-Dimethylhydrazine									
Dimethyl methyl phosphonate									
2,4-Dimethylphenol							400		
Dimethyl phthalate									
Dimethyl sulfate									
Dimethylvinylchloride									
1,3-Dinitrobenzene									
4,6-Dinitro-o-cresol									
Dinitrophenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dinitrotoluene									
Dioxane			7 (83)		7 (83)				
Di(n-octyl) phthalate									
1,4-Dioxane									
Diphenamid							40		
Diphenylamine									
1,2-Diphenylhydrazine									
Diquat			20 (83)		20 (83)				
Direct Black 38									
Direct Blue 6									
Direct Brown 85									
Disperse Blue 1									
Dayston									
1,4-Dithiane									
Diuron									
Endosulfan									
Endosulfan sulfate									
Endothal			100 (83)		100 (83)				
Endrin	0.2		2 (83) / 0.2		2 (83)				
Epichlorohydrin			(105)		zero				
Estradiol 17beta									
Ethers, chloroalkyl-									
Ethers, halo-									
Ethion							35		
Ethylbenzene	680		700	30 (100)	700	680 (100)		29 (26)	
Ethyl-4,4'-dichlorobenzate									
Ethylene dibromide (EDB)	0.02		0.05		zero	0.01 (100)			
Ethylene glycol									
Ethylenamine									
Ethylene oxide (ETO)									
Ethylene, dichloro-									
Ethylene thiourea (ETU)									
Fenamphos									
Ferbam									
Fluometuron									
Fluoranthene									
Fluorene									
Folpet									
Fonolox									
Formaldehyde							30		
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole									
Furmecycloz									
Gasoline									
Glu-P-1								5 (117)	
Glu-P-2									
Glycidol									



Ca/EPA

**State Water
Resources
Control Board**

Division of
Clean Water
Programs

Mailing Address:
P.O. Box 944212
Sacramento, CA
94244-2120

2014 T Street,
Suite 130
Sacramento, CA
95814
(916) 227-4307
FAX (916) 227-4530

World Wide Web
<http://www.swrcc.ca.gov/~cwphome/fundhome.htm>

JUL 22 1997

Richard Meyerhoff
J & R Properties
181 28th Ave
San Francisco, CA 94121

UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 12093, FOR SITE ADDRESS: 1301 26TH ST, OAKLAND 94607

The State Water Resources Control Board (State Board) is able to issue, pursuant to applicable regulations, the enclosed Letter of Commitment (LOC) in an amount not to exceed \$10,000. This LOC is based upon our review of the corrective action costs you reported to have incurred to date. The LOC may be modified by the State Board.

It is very important that you read the terms and conditions listed in the enclosed LOC. Claims filed with the Underground Storage Tank Cleanup Fund far exceed the funding available and it is very important that you make use of the funding that has been committed to your cleanup in a timely manner.

Consequently, if you do not submit your first reimbursement request for corrective action costs which you have incurred within ninety (90) calendar days from the date of this letter, your funds will automatically be deobligated. Once deobligated, any future funds for this site will be obligated subject to availability of funds at such time when we receive your reimbursement request.

You are reminded that you must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Only corrective action costs *required* by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. **Unless waived in writing, you are required to obtain preapproval of costs for all future corrective action work (form enclosed).** If you have any questions on obtaining preapproval of your costs or the three bid requirement, please call Steve Marquez, our engineer assigned to claims in your Region, at (916) 227-0746. Failure to obtain preapproval of your future costs may result in the costs not being reimbursed.

The following documents needed to submit your reimbursement request are enclosed:

- "Reimbursement Request Instructions" package. **Retain this package for future reimbursement requests.** These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in the instruction package are samples of completed reimbursement request forms and spreadsheets.

3921
CL

LOP



Pete Wilson
Governor

97 JUL 23 PM 2:13
ENVIRONMENTAL
PROTECTION



Recycled Paper

Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.

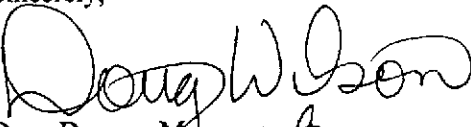
JUL 22 1997

- "Bid Summary Sheet" to list information on bids received which must be completed and returned.
- "Reimbursement Request" forms which you must use to request reimbursement of costs incurred.
- "Spreadsheet" forms which you must use in conjunction with your reimbursement request.
- "Claimant Data Record" (Std. Form 204) which must be completed and returned with your first reimbursement request.

We continuously review the status of all active claims. If you do not submit a reimbursement request or fail to proceed with due diligence with the cleanup, we will take steps to withdraw your LOC.

If you have any questions regarding the enclosed documents, please contact Anna Torres at (916) 227-4388.

Sincerely,


Dave Deaner, Manager
UST Cleanup Fund Program

Enclosures

cc: Mr. Thomas Peacock
Alameda County EHD
1131 Harbor Bay Pkway, 2nd Fl.
Alameda, CA 94502-6577



DRAFT

DRAFT

StId 779/lop

July 22, 1997

Attn: Michael Whelan
ARCO Products Company
704 -228th Ave NE, Ste 482
Redmond WA 98053

DRAFT

Subject: ARCO Service Station #0608 located at 17601 Hesperian Blvd., San Lorenzo, California

Dear Mr. Whelan:

This office has received and reviewed risk assessment documentation from Pacific Environmental Group, Inc. dated July 27 and October 5, 1993 and June 25, 1995 for the subject site. Investigations concerning impact to and cleanup efforts of soil and shallow groundwater in the vicinity of 17601 Hesperian Boulevard were initiated in 1988 subsequent to the removal of a leaking gasoline underground tank system. Sampling of groundwater from monitoring wells and domestic irrigation wells located within, adjacent to, and west of the gasoline station has identified that shallow groundwater has been impacted from the former gasoline release. Pacific Environmental Group, Inc. has completed an evaluation of risk from exposure to residual gasoline impact to shallow groundwater in the residential area located west of the 17601 Hesperian Boulevard.

We concur with the methodologies and exposure pathways evaluated in the risk evaluations. (These evaluations did not include municipal/daily drinking water standards.) Based on current information at the site, it is the opinion of this agency that there is no significant public health risk in the areas and concentrations evaluated.

Please contact Tom Peacock of this office at (510)567-6700 if you require further information or have questions.

Sincerely,

DRAFT

Ravi Arulanantham, Ph.D.
Staff Toxicologist

c: Attn: Debra Moser and Shaw Garakani, Pacific Environmental Group, Inc., 2025 Gateway Place,
Ste 440, San Jose CA 95110
Kevin Graves, RWQCB
T. Peacock, LOP Manager
ALL-Files

DRAFT

1997-07-18 14:20
 510 337 9335
 ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
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**ALAMEDA COUNTY ENVIRONMENTAL
 HEALTH SERVICES**

ENVIRONMENTAL PROTECTION DIVISION
 1131 Harbor Bay Parkway, Suite 250
 Alameda, CA 94502-6577
 Telephone (510) 567-6700 Fax (510) 337-9335

FAX COVER SHEET

DATE: July 18, 19 97

TO: Shaw Sarakani
PEG

FAX # (408) 441-7539

Total number of pages including cover sheet 2

FROM: Amy Leach
567-6755

NOTE:

~~PLEASE RESPOND BY FAX ONLY.~~



PACIFIC ENVIRONMENTAL GROUP, INC.

FACSIMILE TRANSMITTAL

DATE: 7/17/97 PROJECT #: _____

TO: Ms. Amy Leach FAX: (510) 337-9335
~~562-6000~~

AMEHSA

FROM: SHAW GARAKANI

IF YOU HAVE ANY PROBLEMS RECEIVING THIS FACSIMILE, PLEASE CALL (408) 441-7500

SHEETS TO FOLLOW COVER PAGE

1

COMMENTS:

Hi Amy,
Can You please Complete the right bottom Corner
and FAX Back to me. I left you a voice
mail regarding this. please Call if you have
questions
Regards, Shaw

State of California
Department of Water Resources
Central District
3251 S Street
Sacramento, CA 95816-7017

WELL DRILLER'S REPORTS
INSPECTION REQUEST AND AGREEMENT

Project: ARCO SERVICE STATION 0608
Location: 03502W18G (17601 HESPERIAN, SAN LORENZO)
County: ALAMEDA Contract Number: _____

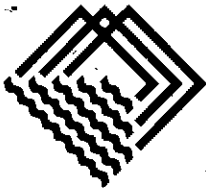
Request is made pursuant to Section 13751 of the California Water Code for permission to inspect or copy Water Well Driller's Reports which are on file in your office.

In accordance with the requirements of Section 13752 of the Water Code, it is stipulated and agreed that such reports, or any copy or copies made thereof, will not be made available for inspection by the public but will be used solely by this governmental agency for making studies. If copies are made or taken, each copy will be stamped "CONFIDENTIAL" or "FOR OFFICIAL USE ONLY" and will be kept in a restricted file, access to which is limited to the staff of this governmental agency or to its contracted agents. Any copies furnished to contracted agents must be returned to the Department of Water Resources, Central District upon completion of work by the contracted agent.

No information contained in these reports can be disseminated or published without the written permission of the owner of the well.

<u>PACIFIC ENVIRONMENTAL GROUP</u>	<u>ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY</u>
Contracted Agent	Governmental Agency
<u>2025 GATEWAY BL. #440</u>	<u>1131 HARBOR BAY PRWY #750</u>
Address	Address
<u>SAN JOSE, CA 95110</u>	<u>ALAMEDA, CA 94502</u>
City, State, & Zip Code	City, State, & Zip Code
By <u>[Signature]</u>	By <u>[Signature]</u>
Officer	Officer
<u>PROJECT ENGINEER</u>	<u>Hazardous Materials Specialist</u>
Title	Title
<u>(408) 441-7500</u>	<u>(510) 567-6700</u>
Telephone	Telephone
<u>7-17-97</u>	<u>07-07-97</u>
Date	Date

(For Departmental Information: _____ copies sent _____)



PACIFIC
ENVIRONMENTAL
GROUP, INC.

6/27/97 - left msg for Ravi to
call or draft memo to ~~me~~
Also Re. this case file & P.A.

June 24, 1997
Project 330-006.3E

Dr. Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Ms. Amy Leech
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: ARCO Service Station 608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Dr. Arulanantham and Ms. Leech:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company (ARCO) requests written approval of the modified health risk assessment which was performed as part of the 1994 Remedial Investigation/Feasibility Study (RI/FS) for the site referenced above.

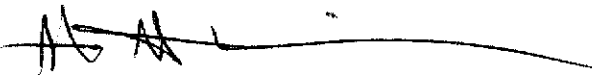
During an April 29, 1997 meeting attended by ARCO, PACIFIC, and the Alameda County Health Care Services Agency (ACHCSA), it was agreed that based on changing fuel leak policy, the RI/FS process would no longer be pursued for this site. The site will be managed under existing fuel leak guidance provided by the California Regional Water Quality Control Board (RWQCB). As part of the site management process, all parties agreed that although no significant health risk currently is posed by the existing domestic irrigation wells in the site vicinity, that abandoning these wells would be a prudent action in preventing future risks or liabilities. ARCO and PACIFIC will independently pursue the abandonment of these wells, with the understanding that the ACHCSA will be available to respond to any questions that the well owners may have regarding this issue.

ARCO and PACIFIC plan to contact the well owners in the near future, and would like to provide them with a brief letter from you which approves the health risk assessment which has been performed for the site. This letter would be used as part of the information presented by ARCO and PACIFIC, in explaining our proposal for abandoning the wells. If we can provide additional information which would be helpful to you in preparing such a letter, please call.

Thank you for your assistance.

Sincerely,

Pacific Environmental Group, Inc.



Shaw Garakani
Project Engineer



Debra J. Moser
ARCO Program Manager

cc: Mr. Michael Whelan, ARCO Products Company
Ms. Juliett Shin, Alameda County Health Care Services Agency
Mr. Kevin Graves, Regional Water Quality Control Board

WORKING AGENDA
ARCO SERVICE STATION 0608
APRIL 29, 1997

A. Introduction

B. Project Status/Update

- a. Monitoring Well Data
- b. Homeowner Well Data
- c. Groundwater Elevation/Direction
- d. Summarize Homeowner Well Sampling/Use Status
- e. Oxygen Enhancement Results

C. RI/FS Revision Due to the Change in Regulations

D. Current Fuel Policy:

- a. closure pathway
- b. Written approval of the risk assessment
- c. MtBE
- d. Well Survey - $\frac{1}{2}$ radius

E. Home owner well abandonment

F. Reduction in Groundwater Monitoring Program

G. Review Agenda

*Application for site management as a low risk
GW site*

*Use B.W.G.B. - Attenuation Rates
w/ or Pumping*

- MtBE issues

- Reduction in sampling

*- Well abandonment
→ zone 7 permit req to*



ARCO Products Company

704 228th Ave. N.E., Ste. 482
Redmond, Washington 98053
Telephone 206 868 1133
Fax 206 868 0210

Michael R. Whelan

Environmental Engineer



**PACIFIC
ENVIRONMENTAL
GROUP, INC.**

Shaw Garakani
Project Engineer

2025 Gateway Place, Suite 440
San Jose, California 95110
(408) 441-7500
FAX (408) 441-7539

Meeting on April 29, 1997
RE: StId 779/lop
ARCO Service Station
17601 Hesperian Blvd., San Lorenzo

Attendees: Mike Whelan of ARCO, Debra Moser and Shaw Garakani of Pacific Env. Group, Inc., Craig Mayfield w/Zone 7, and Tom Peacock, Juliet Shin, and Amy Leech of AlCo DEH LOP

Debra Moser of PEG supplied outline of meeting objectives.

PEG presented 1st Quarter '97 groundwater data.

PEG verified that homeowners which have refused access are given quarterly notices of PEG's intent to sample.

MtBE issues raised-

J.Shin suggested that well owner at 17371 VM should be notified of MtBE (detect at 55 ppb 1stQ)

Domestic Well issue discussed:

Although risk assessment data identified no public health risk, ARCO is looking into offering that domestic wells in study area be destroyed. Residual contamination remains but appears to be attenuating. They are considering offering that a deeper well be installed if ho still would like to irrigate w/well water.

Craig Mayfield of Zone 7 had no objections at installing wells in deeper aquifers. Also, discussed was logistics of well destruction (pressure grout v drill out).

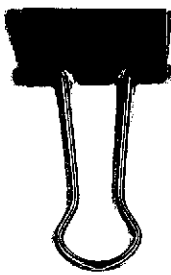
J.Shin suggested that MtBE issue should be evaluated. Attenuation rates and plume stability w/o gw extraction could be modelled.

ARCO requested a letter from our agency which only addresses and approves the risk assessments . (AlCO addressed this issue in a past letter which included other issues.)

ARCO plans to submit an application for a Site Management under a Low-Risk GW Site under the RWQCB's 1995 guidance. Issues that should be included were discussed:

Attenuation Rates w/ORC or pumping.
MtBE issues
Reduction in sampling
Well abandonment w/Zone 7 permit requirements
Well Survey w/1/2 radius

The Site Management Plan would be in lieu of resubmitting a Final Draft of the RI/FS.



MEMORANDUM
Alameda County Department of Environmental Health
Local Oversight Program

DATE: March 10, 1997

TO: Craig Mayfield
Zone 7, Flood Control & Water Conservation QIC #80201

FROM: Amy Leech *AL*

SUBJECT: Meeting set for 04/29/97 to discuss ARCO Service Station located at 17601 Hesperian Blvd., CA

484-2600
7290

Per our telephone conversation, a meeting time has been set for April 29, 1997 at 10:00 A.M. to discuss the subject site. ARCO representative, Mike Whelan, and representatives from ARCO's environmental consultant, Pacific Environmental Group, Inc., will be attending the meeting, as well as, representatives from my group. As we discussed, one of the main topics to discuss during the meeting is the future status of the domestic irrigation wells that have been impacted by the gasoline release from this site. Your participation in the meeting will be very helpful. Thanks again for being available to attend.

Please find attached a brief case summary of the site that includes a discussion and location maps of the domestic irrigation wells. This case summary was prepared in 1994. Please give me a call at X36755 if you would like any additional information regarding this site or if you have questions.

The meeting will be held at our offices at 1131 Harbor Bay Parkway, Room 106 in Alameda. A map with directions to our building is attached. Room 106 is downstairs next to the reception area as you enter the building. Looking forward to meeting you on April 29.

ATTACHMENTS (2)



PACIFIC
ENVIRONMENTAL
GROUP, INC.

March 5, 1996
Project 330-006.1B

Mr. Michael Whelan
ARCO Products Company
P.O. Box 612530
San Jose, California 95161

Re: Well Destruction, MW-17
ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Whelan:

This letter prepared by Pacific Environmental Group, Inc. (PACIFIC) provides notification of the destruction of Well MW-17 which was used for groundwater monitoring at the site referenced above. The well was destroyed to make way for future construction.

Well MW-17, located at 17200 Via Magdalena, San Lorenzo was destroyed on March 1, 1996 by drilling out the casing to the total depth of 27 feet below ground surface. The bore hole was then backed, through tremie from the bottom of the bore hole to the ground surface, with neat cement. Well destruction was performed by Baylands Drilling Company under Zone 7 Water Agency Permit #96133.

If you have any questions, please call.

Sincerely,

Pacific Environmental Group, Inc.

Kelly C. Brown
Project Manager

cc: Mr. Wyman Hong, Zone 7 Water Agency
Ms. Amy Leech, Alameda Count Health Care Services Agency

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

ENVIRONMENTAL PROTECTION DIVISION
1131 Harbor Bay Parkway, Suite #250
Alameda, CA 94502-6577
Telephone (510) 567-6700
Fax Number (510) 337-9335

FAX COVER SHEET

DATE: August 16, 19 95

TO: MICHAEL WHELAND

ARCO

FAX # (408) 377-8361

Total number of pages including cover sheet 2

FROM: SUSAN HUGO

NOTE:

Per your request.

(SMILE) have a nice day.
DO SOMETHING FOR OUR ENVIRONMENT.

LIST OF ARCO SITES WITH UGT CLEANUP
(August 16, 1995)

<u>STID#</u>	<u>ACHD CONTACT</u>	<u>ARCO#</u>	<u>ADDRESS</u>
3629	Susan Hugo	2112	1260 Park Street, Alameda 94501
817	Amy Leech	5387	20200 Hesperian Blvd. Hayward 94541
3943	Scott Seery	2152	22141 Center St., Castro Valley 94546
3883	Susan Hugo	6113	785 E. Stanley Blvd., Livermore 94550
3873	Susan Hugo	771	899 Rincon Avenue, Livermore 94550
1053	Eva Chu	6041	7249 Village Parkway, Dublin 94568
779	Amy Leech	608	17601 Hesperian Blvd. San Lorenzo 94580
3876	Barney Chan	2185	9800 East 14th Street, Oakland 94603
3756	Barney Chan	276	10600 MacArthur Blvd. Oakland 94605
3874	Susan Hugo	4931	731 W. MacArthur Blvd. Oakland 94609
3884	Susan Hugo	374	6407 Telegraph Avenue, Oakland 94609
3626	Susan Hugo	6148	5131 Shattuck Avenue, Oakland 94609
3890	Barney Chan	2107	3310 Park Blvd. Oakland 94610
3854	Barney Chan	4494	566 Hegenberger Road, Oakland 94621
3793	Susan Hugo	2169	889 W. Grand Ave. Oakland 94607
3858	Barney Chan	2035	1001 San Pablo Avenue, Albany 94706
4275	Scott Seery	601	712 Lewelling Blvd. San Leandro 94579
744	Dale Kletke	2111	1156 Davis Street, San Leandro 94577

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

July 21, 1995

Michael Whelan
ARCO Petroleum Products Co.
2155 S Bascom Avenue, Suite 202
Campbell CA 95008

StId 779

Subject: Work Plan and RI/FS revisions for ARCO Service Station
0608 located at 17601 Hesperian Blvd., San Lorenzo, CA

Dear Mr. Whelan:

This office has reviewed the Work Plan and RI/FS Supplemental Information, dated June 28, 1995, submitted by Pacific Environmental Group, Inc. (Pacific).

The work plan proposes to conduct a pilot study to determine the feasibility of reducing petroleum hydrocarbon contamination in groundwater by enhancing *in-situ* aerobic biodegradation via installation of oxygen releasing compounds (ORC) in wells located upgradient from monitoring wells MW-8 and MW-10. Additionally, the work plan proposes to discontinue pumping of the on-site groundwater extraction well EA-1 throughout the pilot study (July 1995 through December 1995) to allow for evaluation of its affect on migration of the dissolved petroleum hydrocarbon plume and to allow dissolved oxygen to disperse downgradient in groundwater in the area of MW-8. Per the work plan, dissolved oxygen concentrations will be measured monthly in wells EA-1, SP-1, SP-2, MW-8, and MW-10. A progress report of the pilot study will be included in the third quarter 1995 report, and the analyses for groundwater parameters indicative of biodegradation, which were completed for the baseline groundwater biodegradation study in May 1995, will be repeated and reported in the forth quarter 1995 report.

The RI/FS Supplemental Information contained revisions to the November 1994 draft that included 1) a feasibility study to gather baseline concentrations of groundwater parameters to identify those parameters which may be rate limiting to natural biodegradation, 2) a risk assessment of residential indoor inhalation exposure to benzene, and 3) the inclusion of ORCs, to enhance *in-situ* bioremediation, to Alternative 2 of the Remedial Action Alternatives.

The Work Plan and RI/FS revisions are acceptable to this office with the following additions and/or comments:

Whelan

Re: 17601 Hesperian Blvd

July 20, 1995

Page 2 of 3

1. Based on the results of the baseline concentrations of dissolved oxygen collected from monitoring and domestic irrigation wells in May 1995, dissolved oxygen was limited throughout the entire study area, i.e. there were no "background" levels established for dissolved oxygen. This is contrary to what was stated in the RI/FS. By implementing Remedial Action Alternative 2, it is anticipated that increased dissolved oxygen levels by the use of ORC will increase the rate of *in-situ* biodegradation. However, if it is found from the pilot study that petroleum hydrocarbon concentrations do not significantly decline in areas of concern (i.e. the biodegradation rate for petroleum hydrocarbons does not increase), then other, more effective remedial alternatives, and possibly containment measures, should be considered and implemented.
2. In addition to conducting monthly measurements for dissolved oxygen concentrations during the pilot study, groundwater samples should be collected from monitoring wells EA-1, MW-8, and MW-10 and analyzed for TPH-g and BTEX on a monthly basis. Restarting or pulsing the groundwater extraction system may need to be considered if an increasing trend of petroleum hydrocarbon concentrations is detected.
3. Remedial Action Alternative 2 should not include that well owners be given the go ahead to begin pumping. Per the May 9, 1995 meeting, the Groundwater Management Plan will address the timing, appropriateness, and monitoring involved with health protection and plume migration in regard to allowing for pumping of the domestic irrigation wells. It seems appropriate that well owners should be asked not to pump at least through the pilot study while the on-site extraction system is turned off. During this time, careful monitoring should be performed to insure that petroleum hydrocarbon concentrations do not increase downgradient of the site.
4. We concur with the methodologies and exposure pathways evaluated in the risk assessment. (This evaluation did not include municipal/daily drinking water standards.) Based on current information at the site, it is the opinion of this agency that there is no significant public health risk in the areas and concentrations evaluated.
5. Please submit a draft copy of the "Fact Sheet" to this office for review and approval, prior to submitting it to the public. In addition, it was discussed in the May 9, 1995 meeting that a mass mailing of the "Fact Sheet" would be distributed to all properties in the affected area,

Whelan
Re: 17601 Hesperian Blvd
July 20, 1995
Page 3 of 3

including properties with and without wells. Per my recollection, you were planning to use an address list that was compiled during the initial domestic well survey. Please submit a copy of this list to our office.

Please contact me at (510)567-6755 to discuss any of the above concerns. We hope the pilot study goes well and look forward to receiving preliminary information in the third quarter monitoring report.

Sincerely,



Amy Leech
Hazardous Materials Specialist

c: Ms. Debra Moser
Mr. Keith Winemiller
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Kevin Graves
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Acting Chief of Environmental Protection - Files(ALL)

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

ENVIRONMENTAL PROTECTION DIVISION
1131 Harbor Bay Parkway, Suite #250
Alameda, CA 94502-6577
Telephone (510) 567-6700
Fax Number (510) 337-9335

FAX COVER SHEET

DATE: June 27, 1995

TO: DAVID LARSON

FAX # (408) 453-0452

Total number of pages including cover sheet 2

FROM: SUSAN L. HUGO

NOTE:

List of ARCO SITES & corresponding
contact person

(SMILE) have a nice day.
DO SOMETHING FOR OUR ENVIRONMENT.

(6/27/95)

LIST OF ARCO SITES WITH UGT CLEANUP

<u>STID#</u>	<u>ACHD CONTACT</u>	<u>ARCO FACILITY#</u>	<u>ADDRESS</u>
3629	Susan Hugo	Station 2112	1260 Park Street Alameda 94501
817	Amy Leech	Station 5387	20200 Hesperian Blvd. Hayward 94541
3943	Scott Seery	Station 2152	22141 Center Street Castro Valley 94546
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3858	Barney Chan	Station 2035	1001 San Pablo Avenue Albany 94706
4275	Scott Seery	Station 601	712 Lewelling Blvd. San Leandro 94579

AGENDA
ARCO SERVICE STATION 608
ACHCSA, RWQCB, ARCO, PACIFIC MEETING
MAY 9, 1995

I. INTRODUCTION

A. Attendees

B. Purpose of meeting

1. Resolve remaining issues and questions regarding RIFS
2. Gain approval of RIFS

II. BIODEGRADATION

A. Evidence for plume stabilization and/or recession

1. On-going source removed (soils data)
2. Declining concentrations in outlying wells

B. Evidence for biodegradation

C. Consideration of oxygen-releasing compounds

III. ADDITIONAL RISK ASSESSMENT

IV. GROUNDWATER MANAGEMENT PLAN

V. DOMESTIC IRRIGATION WELLS

A. Consideration of future pumping

- management plan

B. Public participation and notification

- addendum part of RI/FS

VI. SUMMARY

5/9/95

779 Arco - 17601 Mexican Blvd.
S.H. 94580

Bioremediation - Bioaugmentation

Pilot-Project at ARCO - Bioaugmentation
in Sacramento, ORC

1-9 ppm - O₂ → to determine if O₂ is
a limiting factor
Measurements of O₂
I
H₂S

Plume stable? ^{not} spreading!

→ 2 irrigations wells not

active - non-invasive }
bioremediation

ORC →

→ Flyer → for participation

ARCO - 17601 Hesperian Blvd.
San Lorenzo 94580

Date: May 9, 1995

NAME	COMPANY	TELEPHONE
SUSAN L. HUGO	ACDEH	(510) 567-6780
RAVI ARULANANTHAM	ACDEH/RWQCB	286-1331
KEITH WINEMILLER	PACIFIC	408-441-7500
Mike Whelan	ARCO	(408) 377-8697
CLEVE SOLOMON	PACIFIC ENV. GRP. (L.A.)	818-351-4814
Debra Moseu	Pacific Env. group (SS)	408-441-7500
Amy Leech	Alameda Cty Env Health	(510) 567-6755
Jill Stain	" "	(510) 567-6763
Kevin Graves	RWQCB	(510) 286-0435

StId 779

April 21, 1995

Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Subject: In-house meeting before the meeting to discuss and resolve issues of concern regarding remedial action plans and risk assessment for ARCO Service Station 0608 located at 17601 Hesperian Blvd., San Lorenzo, CA 94580

Please see attached a letter that confirms the May 9, 1995 meeting time with the R.P. and their consultant for the subject site. It appears that an in-house meeting to discuss the data, risk assessment, and proposed remedial action plan for this site is necessary in order for us to reach a consensus on how best to proceed. Ideally and because Pacific Environmental Group on behalf of ARCO has requested this, we hope to give ARCO and Pacific Environmental Group a concise idea of what Alameda County and RWQCB expect ARCO's future plan of action should be in regard to this site.

We are planning to meet at 9:30 A.M. on May 9, 1995 at our office. I very much appreciate your time and assistance with this site.

Sincerely,

Amy Leech
Hazardous Materials Specialist

Distribution List

Ravi Arulanantham, RWQCB
Kevin Graves, RWQCB
Juliet Shin, Alameda County Dept. of Env. Health

StId 779

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Kevin Graves, RWQCB
Juliet Shin, Alameda County Dept. of Env. Health

StId 779

April 20, 1995

Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Subject: Meeting to discuss and resolve issues of concern
regarding remedial action plans and risk assessment for
ARCO Service Station 0608 located at 17601 Hesperian
Blvd., San Lorenzo, CA 94580

The meeting to discuss the subject site will be held on **Tuesday,
May 9, 1995 at 1:00 P.M.** The meeting location is Room 201 at:

Alameda County Department of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

DIRECTIONS

From Highway 880
Take Hegenberger Exit and go west toward Oakland Airport
Turn Right onto Highway 61 (Doolittle Rd.)
Turn Left onto Harbor Bay Parkway
Continue past the golf course
Turn right onto "C" Street
Follow signs marked "Alameda County Environmental Health Dept."
Park in front of the building and enter through the front door

Please call me at (510)567-6755 if you need additional
information.

Sincerely,

Amy Leech
Hazardous Materials Specialist

Distribution List

Ravi Arulanantham, RWQCB
Kevin Graves, RWQCB
Debra Moser, Pacific Environmental Group, Inc.
Juliet Shin, Alameda County Dept. of Env. Health
Keith Winemiller, Pacific Environmental Group, Inc.
Michael Whelan, ARCO Petroleum Products Co.

StId 779

April 20, 1995

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San Francisco Bay Region
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Keith Winemiller, Pacific Environmental Group, Inc.
Michael Whelan, ARCO Petroleum Products Co.

StId 779

April 20, 1995

Michael Whelan
ARCO Petroleum Products Co.
2155 S Bascom Ave
Campbell CA 95008

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Keith Winemiller, Pacific Environmental Group, Inc.
Michael Whelan, ARCO Petroleum Products Co.

April 20, 1995

Debra Moser
Keith Winemiller
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

Subject: Meeting to discuss and resolve issues of concern
regarding remedial action plans and risk assessment for
ARCO Service Station 0608 located at 17601 Hesperian
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Debra Moser, Pacific Environmental Group, Inc.
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Keith Winemiller, Pacific Environmental Group, Inc.
Michael Whelan, ARCO Petroleum Products Co.

1995.04-03 16:21
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
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7499402045

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

April 3, 1995

DEPARTMENT OF ENVIRONMENTAL HEALTH

Debra Moser
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

Subject: Meeting coordination with RWQCB, Alameda County, Pacific Environmental Group, and ARCO to discuss the LOP case #779 located at 17601 Hesperian Blvd. in San Lorenzo

Dear Ms. Moser:

As you know, we are having a difficult time coordinating meeting times to discuss the subject site. The month of April has turned out to be a bad month to coordinate a meeting. In an effort to efficiently schedule this meeting where all needed parties can attend, I have attached a blank calendar for the month of May. Per our discussion today, you have agreed to fill out a calendar that reflects Pacific's and ARCO's schedule for May.

1. Please "X" out days/times (AM & PM slots) on this calendar your group CANNOT attend this meeting as of 3:00 P.M. on Friday, April 7, 1995.
2. Fax the filled out calendar to me (fax #510-337-9335) no later than 3:00 P.M. on Friday, April 7th.
3. If your group has other commitments that come up after you return your May calendar to me and before I confirm the meeting times with you, please call me at 510-567-6755 to let me know.
4. If all parties reply by Friday at 3PM, I will let you know by late Friday (4/7) or early Monday (4/10) what day the meeting will be scheduled in May.

Thank you very much for your assistance. I look forward to meeting with you sometime in May.

1995.04-03 16:19
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
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7499402045

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

April 3, 1995

DEPARTMENT OF ENVIRONMENTAL HEALTH

Debra Moser
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

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ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



Post-It™ brand fax transmittal memo 7671 # of pages ▶ 2	
To Debra Moser	From Amy Leech
Co.	Co.
Dept.	Phone #
Fax #	Fax #

April 3, 1995

Debra Moser
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

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Sincerely,

Amy Leech
Hazardous Materials Specialist

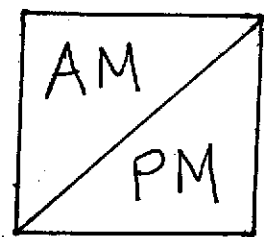
ATTACHMENT

Meeting Attendees:
Amy Leech, Alameda County
Juliet Shin, Alameda County
Kevin Graves, RWQCB
Ravi Arulanantham, RWQCB
Debra Moser, Pacific
Cleve Solomon, Pacific
Keith Winemiller, Pacific
Michael Whelan, ARCO

Schedule
for
Pacific
&
ARCO

May '95

A.M. = 9-12
P.M. = 1-4



Photograph by Adam Jones

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8 <small>May Day Holiday (UK)</small>	9	10	11	12	13
14	15	16	17	18	19	20
21 <small>Mothers' Day</small>	22	23	24	25	26	27 <small>Armed Forces Day</small>
28	29 <small>Victoria Day (Canada)</small>	30	31			
	<small>Memorial Day</small> <small>Spring Bank Holiday (UK)</small>					

April							June							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**
DAVID J. KEARS, Agency Director



Post-It™ brand fax transmittal memo 7671 # of pages > 3

To	Kevin Graves	From	Amy Leech
Co.		Co.	
Dept.		Phone #	
Fax #		Fax #	

April 3, 1995

ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

Kevin Graves
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Subject: Coordination of meeting times with RWQCB, Alameda County, Pacific Environmental Group, and ARCO to discuss the LOP case #779 located at 17601 Hesperian Blvd. in San Lorenzo

Dear Kevin:

As you know, we are having a difficult time coordinating meeting times to discuss the subject site. The month of April has turned out to be a bad month to coordinate a meeting. In an effort to efficiently schedule this meeting where all needed parties can attend, I have attached a blank calendar for the month of May.

1. Please "X" out days/times (AM & PM slots) on this calendar you CANNOT attend these meetings as of 3:00 P.M. on Friday, April 7, 1995.
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3. If you have other commitments that come up after you return your May calendar to me and before I confirm the meeting times with you, please call me at 510-567-6755 to let me know.
4. If all parties reply by Friday at 3PM, I will let you know what day(s) the meeting(s) will be scheduled by late Friday.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



Post-It™ brand fax transmittal memo 7671 # of pages ▶ 3	
To <i>Kevin Graves</i>	From <i>Amy Leech</i>
Co.	Co.
Dept.	Phone #
Fax #	Fax #

April 3, 1995

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Graves/Arulanantham
April 3, 1995
Page 2 of 2

Thank you for your assistance. I look forward to meeting with you sometime in May.

Sincerely,



Amy Leech
Hazardous Materials Specialist

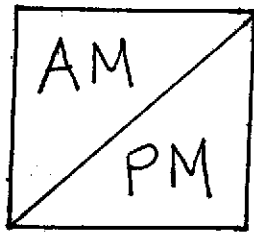
ATTACHMENT

Meeting Attendees:
Amy Leech, Alameda County
Juliet Shin, Alameda County
Kevin Graves, RWQCB
Ravi Arulanantham, RWQCB
Debra Moser, Pacific
Cleve Solomon, Pacific
Keith Winemiller, Pacific
Michael Whelan, ARCO

Schedule
for

May '95

A.M. = 9-12
P.M. = 1-4



Photograph by Adam Jones

Kevin
Graves

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	<i>May Day Holiday (UK)</i>					
7	8	9	10	11	12	13
14	15	16	17	18	19	20
<i>Mothers' Day</i>	21	22	23	24	25	26
	<i>Victoria Day (Canada)</i>	28	29	30	31	
	<i>Memorial Day</i>					
	<i>Spring Bank Holiday (UK)</i>					

April							June							
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**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



Post-It™ brand fax transmittal memo 7671		# of pages ▶ 3
To	Ravi Arulanantham	From Amy Leach
Co.		Co.
Dept.		Phone #
Fax #		Fax #

April 3, 1995

ALAMEDA COUNTY - ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Subject: Coordination of meeting times with RWQCB, Alameda County, Pacific Environmental Group, and ARCO to discuss the LOP case #779 located at 17601 Hesperian Blvd. in San Lorenzo

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ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



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To Ravi Arulanantham	From Amy Leach
Co.	Co.
Dept.	Phone #
Fax #	Fax #

April 3, 1995

ALAMEDA COUNTY - ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
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ALAMEDA CA 94502-6577
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Ravi Arulanantham
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster St., Suite 500
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Graves/Arulanantham
April 3, 1995
Page 2 of 2

Thank you for your assistance. I look forward to meeting with you sometime in May.

Sincerely,



Amy Leech
Hazardous Materials Specialist

ATTACHMENT

Meeting Attendees:
Amy Leech, Alameda County
Juliet Shin, Alameda County
Kevin Graves, RWQCB
Ravi Arulanantham, RWQCB
Debra Moser, Pacific
Cleve Solomon, Pacific
Keith Winemiller, Pacific
Michael Whelan, ARCO



PACIFIC ENVIRONMENTAL GROUP INC.

FACSIMILE TRANSMITTAL

DATE: 3/24/95 PROJ. # 330 0623

TO: Ms. Juliett Shin FAX: (510) 569-4757

ACHCSA

FROM: Shaw Garakani

IF YOU HAVE ANY PROBLEMS RECEIVING THIS FACSIMILE, PLEASE CALL (408) 441-7500

SHEETS TO FOLLOW COVER PAGE

2

COMMENTS: We have continued the "HOME OWNER WELL
REIMBURSEMENT" PROGRAM in 1994. I will
update you as soon as possible on the future
schedule of events. Please call me if I may
be of additional assistance

Regards
Shaw Garakani
Project Engineer



PACIFIC
ENVIRONMENTAL
GROUP INC.

November 4, 1993
Project 330-06.23

Ms. Juliett Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94612

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

On behalf of ARCO Products Company (ARCO), Pacific Environmental Group, Inc. (PACIFIC) is conducting environmental services at the site referenced above. This letter confirms a telephone conversation between Dr. Ravi Arulananthan with the Alameda County Health Care Services Agency (ACHCSA) and Mr. Keith Winemiller (PACIFIC) on November 2, 1993 regarding the referenced site.

Based on the conversation, it is PACIFIC's understanding that the modified risk assessment results, indicating risk below levels established by the State of California, have been approved by ACHCSA. Consequently, Remedial Investigation and Feasibility Study (RIFS) report requirements will be changed. PACIFIC would therefore like to schedule a meeting between ARCO, ACHCSA (including Dr. Arulananthan), and PACIFIC to discuss these changes. Due to scheduling conflicts between PACIFIC, ARCO, ACHCSA, and the upcoming holidays, PACIFIC proposes to schedule the meeting in January 1994. As a result, submittal of the RIFS report has been rescheduled from fourth quarter 1993 to second quarter 1994. PACIFIC will provide ACHCSA with a detailed schedule for the RIFS submittal following the January 1994 meeting.


November 4, 1993

Page 2

PACIFIC will contact you in December 1993 to arrange a convenient day and time for the meeting. If you have any questions regarding this letter, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.


Shaw E. Garakani
Project Engineer

cc: Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company
Dr. Charles Lapin, ARCO Products Company
Ms. Susan Hugo, Alameda County Health Care Services Agency
Mr. Richard Hiatt, Regional Water Quality Control Board -
S.F. Bay Region

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StId #779

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program

January 23, 1995

ALAMEDA COUNTY CC4580
DEPT. OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577

Michael Whelan
ARCO Petroleum Products Co.
P.O. Box 5811
San Mateo CA 94402

Subject: Comments on RI/FS for 17601 Hesperian Blvd., San
Lorenzo, CA 94580

Dear Mr. Whelan:

This office has completed a review of the Remedial Investigation/Feasibility Study (RI/FS) dated November 22, 1994, submitted by Pacific Environmental Group, Inc. (Pacific). Pacific has presented a recommended remedial action plan on behalf of ARCO. The decision to recommend Alternative 2 (No Action for Soil, Institutional Controls for Groundwater Off Site, Groundwater Extraction On Site) of the 5 remediation alternatives presented in the RI/FS was based on facts and assumptions made from this study.

On January 18, 1995, Juliet Shin and Amy Leech of this office spoke via conference call with Debra Moser and Keith Winemiller of Pacific to discuss questions and concerns we have about the RI/FS. Pacific indicated they would need approximately 45 days to respond to our questions. This letter is to summarize the questions and concerns this office has regarding the assumptions made in the RI/FS document.

1. Was the pump in extraction well EA-1 lowered as discussed during the July 8, 1994 meeting? If yes, was the capture zone for this new pump depth incorporated into the Fate and Transport Study (FTS)?
2. Sufficient data was **not** provided to prove that pumping of domestic irrigation wells is or is not affecting plume migration. Pacific agreed to request that the homeowners do not pump through 1995 to allow more time to determine if the pumping of domestic irrigation wells is a factor in plume migration. Furthermore, we urge ARCO to convince the remaining 4 homeowners who continue to pump, to stop pumping until the impact of off-site pumping is known.
3. If domestic irrigation wells are to be used as sentinel or boundary wells, then well construction of those wells should be defined. Based on the RI/FS proposal, well 633H is intended to be used as a boundary or trigger well. If that is to be the case, well construction details are required

for this well. It is possible Well 633H is not showing detectable contamination because it is not screened properly.

4. An assumption was made in the FTS that the half-life (biodegradation rate) of 110 days for dissolved benzene is the most reasonable rate based on site lithology. A Sensitivity Study was also performed using a half-life of 250 days.

How do these rates compare to biodegradation rates provided by the EPA's Toxicological Profile for Benzene? Please provide us data that relates to similar subsurface conditions of the subject site.

5. How do we know that contaminant attenuation observed has been due to biodegradation as opposed to adsorption and dilution? It is difficult to predict that significant biodegradation is occurring within the groundwater, capillary fringe, and vadose zone at the source and downgradient of the source of contamination.

A study by Pacific dated October 12, 1993, was made on the feasibility of in-situ bioremediation of contaminated soil at the site. The study concluded that "...characteristics favorable to bioremediation were **not** sufficient to warrant further study."

Although a case comparison was made in the RI/FS to support the theory that groundwater characteristics are favorable to bioremediation at the ARCO site, we do not see enough evidence to support the assumption that the Case Study groundwater characteristics are "remarkably similar" to the ARCO site.

Because it is difficult to predict a biodegradation rate based on qualitative data, **we recommend that a Fate and Transport Sensitivity Model Study be completed for a worse case scenario where biodegradation does not occur, i.e. the half-life for benzene is null.**

Furthermore, on-site specific data should be collected to support that sufficient biodegradation is occurring in the groundwater. Examples of pertinent site-specific data are: comparison of dissolved oxygen levels and redox potential inside and outside the contaminant plume, concentrations of soluble iron immediately downgradient of the contaminant source compared to background, analysis of on-site microbial populations to determine if petroleum degraders exist.

6. The model results from Scenario 2, for which the Remedial Action Plan is supported, indicates that the plume boundaries will recede approximately 350 feet in 1 year, just two years after the benzene release to the groundwater began. The data used to produce this plume behavior is from 1st Quarter 1994 (reported in March 1994). Data presented from 2nd and 3rd quarterly 1994 monitoring, do not show any recessionary trend which leads us to believe that the model is inaccurate.

Further, we know that the plume boundaries for dissolved benzene currently extend approximately 600 feet downgradient from the site, and the benzene release to the groundwater began to occur 7 or more years ago. If the rate of biodegradation suggested by the model were occurring, it would seem that greater evidence of plume boundary recession would have been more apparent after 7 plus years of monitoring.

It has been shown that benzene concentrations have decreased in the outlying domestic irrigation wells for the last 3 or more quarters. However to date, the plume boundaries have not appreciably receded upgradient toward the site.

The report states "...that groundwater from MW-10 is decreasing markedly in dissolved benzene...". Historical data presented thus far for MW-10, has exhibited sporadic fluctuations in benzene concentrations. **If sufficient evidence is not provided to ensure that contaminant concentrations in MW-10 are significantly biodegrading or attenuating, a corrective action plan will be required to address containment/stabilization and, possibly, remediation of this off-site plume concentration.**

7. What are the current soil contaminant concentrations on site? What is the future leaching potential for these soils? How long will these soils contribute to groundwater contamination?

The most recent data on soil contaminant concentrations on site for the UST gasoline complex and used oil tank location is 1988; and 1992 for the oil-water separator. Per our conversation with Pacific, it was stated that the future leaching of on-site soil contamination was incorporated into the FTS using a general leaching rate solely for benzene. We suggest using more current, site specific data for model calibration.

Alternative 2, the recommended remedial action plan presented in the RI/FS, did not address remediation of the impacted on-site soils. However, the report indicates that the remaining soil contamination is expected to:

- o require a long period of time to naturally attenuate and
- o will further impact the on-site groundwater.

If residual soil contamination is in fact continuing to impact the ground water, then as stated in alternative 4, attempting to eliminate the ultimate source of contamination would seem warranted in this situation.

8. Although the on-site extraction system appears to have contributed to the reduction in contaminant migration since its operation began in 1991, MW-8 and MW-10, the closest monitoring wells downgradient of the site, continue to show elevated levels of TPHg and benzene. This data appears to indicate that contaminants continue to migrate off-site despite the on-site extraction system and/or that the contaminant plume in this area is not significantly biodegrading.

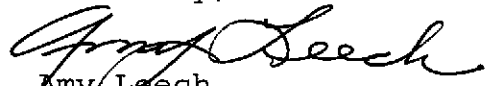
Further efforts in contaminant source reduction, as presented in Alternative 4 (Soil Vapor Extraction on Site, Institutional Controls for Groundwater Off Site, Air Sparging and Groundwater Extraction On Site) in the RI/FS and/or further investigations into the feasibility of off-site groundwater extraction from MW-10 should be considered as viable remediation efforts.

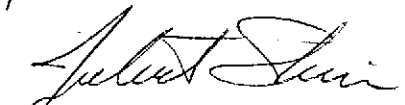
Intrinsic bioremediation could be a viable remediation strategy at sites where it can be shown that contaminants will not reach off-site receptors. However, this does not appear to be the case at the subject site. Numerous off-site domestic irrigation wells have been impacted, and although, the risk assessment performed has shown an acceptable range of health protection for the contaminant concentrations found at these wells thus far, it is this departments position that a conservative approach in remediation of the site is warranted. If sufficient evidence is not provided to indicate active bioremediation or stabilization of the plume has occurred, we recommend expending efforts toward active and effective source reduction and/or containment of the contaminant plume.

Whelan
ARCO Petroleum Products Co.
January 23, 1995
Page 5 of 5

Please contact us at (510)-567-6700 if you have questions.

Sincerely,

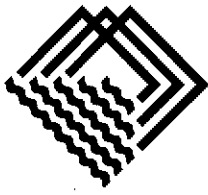

Amy Leech
Hazardous Materials Specialist


Juliet Shin
Senior Hazardous Materials Specialist

lop\779rifs.195

cc: Debra Moser
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

Ed Howell



PACIFIC
ENVIRONMENTAL
GROUP, INC.

01-0092
K h G

August 25, 1994
Project 330-006.2C

CALIFORNIA REGIONAL WATER

AUG 28 1994

REGIONAL WATER BOARD

Mr. and Mrs. Roy Dahmann
633 Hacienda Avenue
San Lorenzo, California 94580

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. and Mrs. Dahmann:

It was a pleasure to meet with Mrs. Dahmann on July 9, 1994 to discuss the status of your irrigation well. Based on our discussion, it is my understanding that your well is not currently operational due to siltation and pump problems. As I mentioned when we met, your well is in a location that ARCO Products Company (ARCO) would like to sample as part of an investigation of groundwater conditions in the area. This investigation is being conducted under the direction of the Alameda County Health Care Services Agency (ACHCSA) and the California Regional Water Quality Control Board (RWQCB). Therefore, on behalf of ARCO, Pacific Environmental Group, Inc. (PACIFIC) is requesting the following:

- (1) permission to restore your well to an operational-ready status,
- (2) authorization to sample your well on a quarterly basis, and
- (3) agreement not to use the well until ARCO's groundwater investigation is complete. Each of these items is discussed below.

WELL RESTORATION

PACIFIC requests that you grant access to your property at 633 Hacienda Avenue in San Lorenzo, for the purpose of restoring your irrigation well to an operational-ready status. This would involve redeveloping the well and replacing or repairing the existing groundwater extraction pump. This task will also include completing the necessary electrical connections to operate the pump. If you agree, ARCO would pay the costs associated with well restoration.

We anticipate that the well restoration would involve the following tasks:

- o **Preliminary examination of the well** by one of PACIFIC's maintenance technicians. This examination will be of the well exterior and its appurtenant electrical connections only, and a test of the electrical connection to the well. This examination will involve no equipment other than hand tools, and will take between 1 and 4 hours to complete.
- o **Pump removal.** This task will be performed by one person, the same maintenance technician who performs the preliminary examination. He will remove the pump from the well, using only hand tools. This task should take between 2 and 6 hours to complete. We do not expect that we will need to trim any of the landscaping near the well; however, we will consult with you before doing any trimming if it becomes necessary, to improve the well access.
- o **Well development.** The purpose of well development is to remove silt which has accumulated inside the well, so that groundwater can flow easily into the well. This task will be done by one technician, using a downhole pump or other portable downhole equipment. The water and silt removed from the well will be directed into a 500-gallon water tank, which is mounted on a trailer towed behind a pickup truck. The truck and trailer would occupy your driveway during well development, which we expect will take between 4 and 12 hours. We would place plastic sheeting around the well to protect nearby structures from splashing water during development. If the driveway is soiled from the well development water and silt, we will hose it down before leaving. After development, the trailer will be removed, and the water and silt will be disposed of, offsite.
- o **Pump replacement.** The pump in your well will be replaced with a new pump of comparable capacity, or will be repaired if repairs are simple. This task will require reconnection of the electrical service to the well. Depending upon the condition of the current electrical wiring to the well, this task may require that our technician replace the wiring from the well to the fuse box. Otherwise, all of the work would be conducted at the well. If the conveyance piping to and from the well needs replacement, we will use PVC (plastic) piping and fittings, with your approval. The technician will use only hand tools. The pump replacement will take between 2 and 12 hours total, over 1 to 2 days.

During the work described, the well area will be kept clean and secure. We would not leave any equipment on your property overnight. We would also take precautions to prevent disruption or damage to your property. Other than changing the pump, and the potential to change the electrical wiring and well piping, we expect to leave your property in the same condition as when we arrive to do the work.

Please note that ARCO will perform the well restoration only if you agree to the following two requests.

QUARTERLY GROUNDWATER SAMPLING

PACIFIC requests authorization to allow us, on behalf of ARCO, to collect samples from your well on a quarterly basis after the well is restored to an operational status. Groundwater samples collected from your well would more clearly define the groundwater conditions in the area, and that information could expedite our assessment efforts. Each sampling event is performed by one sampling technician using only hand tools and the pump which we will install, and the process generally requires less than 1 hour at the well. Every effort would be taken to schedule the sampling in advance to minimize any possible disruption to you. A copy of the sampling results would be submitted to you after each quarterly sampling event.

AGREEMENT NOT TO PUMP WELL

PACIFIC, on behalf of ARCO, requests your agreement not to pump the well following well restoration until ARCO's groundwater investigation is complete, as determined by ACHCSA and the RWQCB. This is requested for the following reasons.

- o Petroleum hydrocarbons have been noted in groundwater in wells in your vicinity. At the present time, hydrocarbons in groundwater in the area are not known to be affecting the water quality in your well. However, pumping your well may complicate this issue for other homeowners in your neighborhood. ACHCSA has requested your cooperation to assure that groundwater is useable to everyone. ACHCSA is urging everyone within the study area to cease pumping of their wells, so everyone can be assured that water quality is not compromised in any way. ACHCSA also encourages everyone to discontinue well use until the investigation is complete.
- o Information available to date indicates that the dissolved hydrocarbons plume in groundwater is stable, and is not migrating

significantly. ACHCSA and ARCO are concerned that any pumping wells in the study area could possibly cause the plume to migrate, thus complicating and prolonging our assessment and, if necessary, cleanup efforts.

- o PACIFIC has completed a health risk assessment for the study area, which ACHCSA has approved. Even though the results of that assessment indicated that there is no health risk associated with exposure to groundwater, as defined in the assessment, ACHCSA and ARCO believe it is prudent to minimize exposure to the groundwater until the investigation is complete.

In exchange for not using your irrigation well, ARCO is prepared to reimburse you \$30 per month for the expense of using municipally-supplied water for irrigation purposes. This reimbursement rate is greater than the estimated cost of using municipally-supplied water for irrigation purposes based on high-usage assumptions for your neighborhood. Attached please find a response form which we are requesting you fill out and return to PACIFIC at your earliest convenience.

On behalf of ARCO, we would be happy to meet with you again to discuss any questions you may have regarding this request. If you would like to ask any questions or schedule a meeting, please call me at (408) 441-7500. Once again, thank you for your cooperation in this matter.

Sincerely,

Pacific Environmental Group, Inc.



Debra J. Moser
Project Manager

Attachment: Response Form and Self-Addressed Stamped Envelope

cc: Ms. Juliet Shin, Alameda County Health Care Services Agency
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region
Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company

**WELL RESTORATION, QUARTERLY GROUNDWATER
SAMPLING, AND DISCONTINUE WELL USE
AUTHORIZATION FORM**

WELL RESTORATION AUTHORIZATION

(initial) I authorize ARCO Products Company (ARCO), or its designated representative, to have access to my property at 633 Hacienda Avenue in San Lorenzo, to redevelop the irrigation well, and to repair or replace the existing groundwater extraction pump for the irrigation well located at this property, and as described in greater detail in the attached letter dated August 25, 1994. ARCO would pay the well restoration costs. I understand that ARCO will perform this well restoration only if I authorize quarterly sampling and discontinuation of well use.

QUARTERLY GROUNDWATER SAMPLING AUTHORIZATION

(initial) I authorize ARCO, or its designated representative, to have access to my property at 633 Hacienda Avenue in San Lorenzo, to collect groundwater samples on a quarterly basis from the irrigation well located at this property, beginning in the third quarter of 1994.

DISCONTINUE WELL USE AUTHORIZATION

(initial) I agree not to pump the irrigation well located on this property until ARCO, ACHCSA, or the RWQCB approves reactivation of this well. In exchange for this authorization, ARCO will reimburse me \$30 per month (beginning in the month that the authorization form is received). Subsequent monthly reimbursement will occur during the first week of each month, and will continue until ARCO, ACHCSA, or the RWQCB approves reactivation of this well.

Unless the undersigned agrees to each of the items listed above, it constitutes a rejection of ARCO's offer.

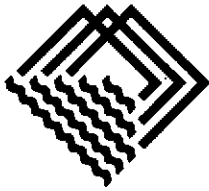
AGREED TO:

Signature of Well Owner

Date

Please Print Name

633 Hacienda Avenue, San Lorenzo
Address



PACIFIC
ENVIRONMENTAL
GROUP, INC.

ALCO
HAZMAT

SA JUL -6 PM 2:22

June 28, 1994
Project 330-006.23

Ms. Juliet Shin
Alameda County Health Care Services Agency
Division of Hazardous Materials
80 Swan Way, Room 350
Oakland, California 94621

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

This letter serves to remind you of our meeting scheduled July 8, 1994 to discuss the site referenced above. This meeting will include representatives from Alameda County Health Care Services Agency (ACHCSA), San Francisco Bay Regional Water Quality Control Board, ARCO Products Company, and Pacific Environmental Group, Inc. (PACIFIC). The purpose of the meeting will be to summarize the project status and results of additional investigations, risk assessment, modeling, and to develop a remedial action strategy. The date, time, and location of the meeting are shown below.

July 8, 1994 at 10:00 A.M.
ACHCSA
1131 Harbor Way, 2nd Floor
Alameda, California

PACIFIC would greatly appreciate if you would call us to confirm your attendance. Thank your for your cooperation.

Sincerely,

Pacific Environmental Group, Inc.

Debra Moser
Project Manager



PACIFIC
ENVIRONMENTAL
GROUP, INC.

June 28, 1994
Project 330-006.23

Ms. Juliet Shin
Alameda County Health Care Services Agency
Division of Hazardous Materials
80 Swan Way, Room 350
Oakland, California 94621

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

This letter serves to remind you of our meeting scheduled July 8, 1994 to discuss the site referenced above. This meeting will include representatives from Alameda County Health Care Services Agency (ACHCSA), San Francisco Bay Regional Water Quality Control Board, ARCO Products Company, and Pacific Environmental Group, Inc. (PACIFIC). The purpose of the meeting will be to summarize the project status and results of additional investigations, risk assessment, modeling, and to develop a remedial action strategy. The date, time, and location of the meeting are shown below.

July 8, 1994 at 10:00 A.M.
ACHCSA
1131 Harbor Way, 2nd Floor
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PACIFIC would greatly appreciate if you would call us to confirm your attendance. Thank you for your cooperation.

Sincerely,

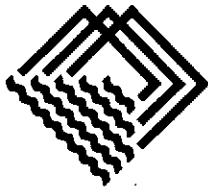
Pacific Environmental Group, Inc.

Debra Moser
Project Manager

June 28, 1994

Page 2

cc: Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Dr. Charles Lapin, ARCO Products Company
Ms. Susan Hugo, Alameda County Health Care Services Agency
Dr. Ravi Arulanantham, Alameda County Health Care Services Agency
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

June 14, 1994
Project 330-006.23

Mr. Manry
17371 Via Magdalena
San Lorenzo, California 94580

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Manry:

Pacific Environmental Group, Inc. (PACIFIC) is sending this letter to you on behalf of ARCO Products Company (ARCO), at the request of Alameda County Health Care Services Agency (ACHCSA). On February 10, 1994, PACIFIC sent you a letter requesting that, during 1994, you discontinue pumping the irrigation well located on your property. Also, PACIFIC asked permission to collect samples from that well on a quarterly basis. In a telephone conversation with PACIFIC, you indicated that you would not agree to stop pumping or to allow samples to be collected from your well.

We acknowledge your reply, and we realize that our investigation of the local groundwater may be an inconvenience for you. Nevertheless, we encourage you to reconsider your decision for the following reasons:

- o Petroleum hydrocarbons have been noted in groundwater in wells in your vicinity. Continued pumping of your well may complicate this issue for other homeowners in your neighborhood. The ACHCSA purpose of soliciting your cooperation is to assure that groundwater is useable to everyone. The ACHCSA is urging everyone within the study area to cease pumping of their wells, so everyone can be assured that water quality is not compromised in any way. The ACHCSA is encouraging you to discontinue your well use until the investigation is complete.
- o Information available to date indicates that the dissolved hydrocarbons plume in groundwater is stable, and is not migrating significantly. ACHCSA and ARCO are concerned that any pumping wells in the study area could possibly cause the plume to

migrate, thus complicating and prolonging our assessment and clean-up efforts.

- o PACIFIC has completed a health risk assessment for the study area, which ACHCSA has approved. Even though the results of that assessment indicated that there is no health risk associated with exposure to the groundwater, as defined in the assessment, ACHCSA and ARCO believe it is prudent to minimize exposure to the groundwater until the investigation is complete.
- o Groundwater samples collected from your well on a quarterly basis would more clearly define the hydrocarbon plume, and that information could expedite our assessment and clean-up efforts. Of course, every effort would be taken to schedule the sampling in advance to minimize any possible disruption to you.

In exchange for discontinuing use of your irrigation well, ARCO is prepared to reimburse you \$30 per month for the expense of using municipally-supplied water for irrigation purposes. This reimbursement rate is greater than the estimated cost of using municipally-supplied water for irrigation purposes, based on high-usage assumptions for your neighborhood. Attached please find a response form which we are requesting you fill out and return to PACIFIC at your earliest convenience.

Once again, thank you for your consideration. On behalf of ARCO, we would be happy to meet with you to discuss any questions you may have regarding your use of city water in place of your well water. If you would like to schedule a meeting, please call me at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.



Debra Moser
Project Manager

Attachments: Response Form and Self-Addressed, Stamped-Envelope

cc: Ms. Juliet Shin, Alameda County Health Care Services Agency
Mr. Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region
Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company

**QUARTERLY GROUNDWATER SAMPLING AND
DISCONTINUE WELL USE
AUTHORIZATION FORM FOR 1994**

QUARTERLY GROUNDWATER SAMPLING AUTHORIZATION

_____ **I authorize** ARCO Products Company (ARCO), or its designated representative, to collect groundwater samples on a quarterly basis through 1994 from the irrigation well located at this property.

_____ **I do not authorize** ARCO, or its designated representative, to collect groundwater samples on a quarterly basis through 1994 from the irrigation well located at this property.

DISCONTINUE WELL USE

_____ **I agree** to stop pumping the irrigation well located on this property until at least December 31, 1994. In exchange for this authorization, ARCO will reimburse me \$30 per month (beginning in the month that the authorization form is received). Monthly reimbursement will occur during the first week of each month, and will continue until Alameda County Health Care Services Agency approves reactivation of this well.

_____ **I do not agree** to stop pumping the irrigation well located on this property.

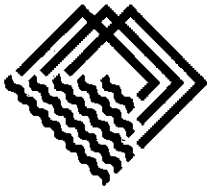
AGREED TO:

Signature of Well Owner

Date

Please Print Name

Address



PACIFIC
ENVIRONMENTAL
GROUP, INC.

June 14, 1994
Project 330-006.23

Mr. and Mrs. Corregedor
642 Hacienda Avenue
San Lorenzo, California 94580

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. and Mrs. Corregedor:

Pacific Environmental Group, Inc. (PACIFIC) is sending this letter to you on behalf of ARCO Products Company (ARCO), at the request of Alameda County Health Care Services Agency (ACHCSA). On February 10, 1994, PACIFIC sent you a letter requesting that, during 1994, you discontinue pumping the irrigation well located on your property. Also, PACIFIC asked permission to collect samples from that well on a quarterly basis. On February 23, 1994, we received your reply that you would not agree to stop pumping or to allow samples to be collected from your well.

We acknowledge your reply, and we realize that our investigation of the local groundwater may be an inconvenience for you. Nevertheless, we encourage you to reconsider your decision for the following reasons:

- o Petroleum hydrocarbons have been noted in groundwater in wells in your vicinity. At the present time, hydrocarbons in groundwater in the area are not affecting the water quality in your well. However, continued pumping of your well may complicate this issue for other homeowners in your neighborhood. The ACHCSA purpose of soliciting your cooperation is to assure that groundwater is useable to everyone. The ACHCSA is urging everyone within the study area to cease pumping of their wells, so everyone can be assured that water quality is not compromised in any way. The ACHCSA is encouraging you to discontinue your well use until the investigation is complete.
- o Information available to-date indicates that the dissolved hydrocarbons plume in groundwater is stable, and is not migrating

significantly. ACHCSA and ARCO are concerned that any pumping wells in the study area could possibly cause the plume to migrate, thus complicating and prolonging our assessment and clean-up efforts.

- o PACIFIC has completed a health risk assessment for the study area, which ACHCSA has approved. Even though the results of that assessment indicated that there is no health risk associated with exposure to groundwater, as defined in the assessment, ACHCSA and ARCO believe it is prudent to minimize exposure to the groundwater until the investigation is complete.
- o Groundwater samples collected from your well on a quarterly basis would more clearly define the hydrocarbon plume, and that information could expedite our assessment and clean-up efforts. Of course, every effort would be taken to schedule the sampling in advance to minimize any possible disruption to you.

In exchange for discontinuing use of your irrigation well, ARCO is prepared to reimburse you \$30 per month for the expense of using municipally-supplied water for irrigation purposes. This reimbursement rate is greater than the estimated cost of using municipally-supplied water for irrigation purposes, based on high-usage assumptions for your neighborhood. Attached please find a response form which we are requesting you fill out and return to PACIFIC at your earliest convenience.

Once again, thank you for your consideration. On behalf of ARCO, we would be happy to meet with you to discuss any questions you may have regarding your use of city water in place of your well water. If you would like to schedule a meeting, call me at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.



Debra Moser
Project Manager

Attachments: Response Form and Self-Addressed, Stamped-Envelope

cc: Ms. Juliet Shin, Alameda County Health Care Services Agency
Mr. Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region
Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company

**QUARTERLY GROUNDWATER SAMPLING AND
DISCONTINUE WELL USE
AUTHORIZATION FORM FOR 1994**

QUARTERLY GROUNDWATER SAMPLING AUTHORIZATION

_____ **I authorize ARCO Products Company (ARCO), or its designated representative, to collect groundwater samples on a quarterly basis through 1994 from the irrigation well located at this property.**

_____ **I do not authorize ARCO, or its designated representative, to collect groundwater samples on a quarterly basis through 1994 from the irrigation well located at this property.**

DISCONTINUE WELL USE

_____ **I agree to stop pumping the irrigation well located on this property until at least December 31, 1994. In exchange for this authorization, ARCO will reimburse me \$30 per month (beginning in the month that the authorization form is received). Monthly reimbursement will occur during the first week of each month, and will continue until Alameda County Health Care Services Agency approves reactivation of this well.**

_____ **I do not agree to stop pumping the irrigation well located on this property.**

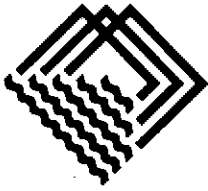
AGREED TO:

Signature of Well Owner

Date

Please Print Name

Address



PACIFIC
ENVIRONMENTAL
GROUP INC.

June 14, 1994
Project 330-006.23

Mr. Joseph Pimental
17372 Via Magdalena
San Lorenzo, California 94580

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Pimental:

Pacific Environmental Group, Inc. (PACIFIC) is sending this letter to you on behalf of ARCO Products Company (ARCO), at the request of Alameda County Health Care Services Agency (ACHCSA). On February 10, 1994, PACIFIC sent you a letter requesting that, during 1994, you discontinue pumping the irrigation well located on your property. Also, we asked permission to collect samples from that well on a quarterly basis. On February 12, 1994, we received your reply that you would not agree to stop pumping, but would allow samples to be collected from your well.

We acknowledge your reply, and we realize that our investigation of the local groundwater may be an inconvenience for you. Nevertheless, we encourage you to reconsider your decision regarding using your well for the following reasons:

- o Petroleum hydrocarbons have been noted in groundwater in wells in your vicinity. Continued pumping of your well may complicate this issue for other homeowners in your neighborhood. The ACHCSA purpose of soliciting your cooperation is to assure that groundwater is useable to everyone. The ACHCSA is urging everyone within the study area to cease pumping of their wells, so everyone can be assured that water quality is not compromised in any way. The ACHCSA is encouraging you to discontinue your well use until the investigation is complete.

- o Information available to date indicates that the dissolved hydrocarbons plume in groundwater is stable, and is not migrating significantly. ACHCSA and ARCO are concerned that any pumping wells in the study area could possibly cause the plume to migrate, thus complicating and prolonging our assessment and clean-up efforts.
- o PACIFIC has completed a health risk assessment for the study area, which ACHCSA has approved. Even though the results of that assessment indicated that there is no health risk associated with exposure to the groundwater, as defined in the assessment, ACHCSA and ARCO believe it is prudent to minimize exposure to the groundwater until the investigation is complete.

In exchange for discontinuing use of your irrigation well, ARCO is prepared to reimburse you \$30 per month for the expense of using municipally-supplied water for irrigation purposes. This reimbursement rate is greater than the estimated cost of using municipally-supplied water for irrigation purposes, based on high-usage assumptions for your neighborhood. Attached please find a response form which we are requesting you fill out and return to PACIFIC at your earliest convenience.

Once again, thank you for your consideration. On behalf of ARCO, we would be happy to meet with you to discuss any questions you may have regarding your use of city water in place of your well water. If you would like to schedule a meeting, please call me at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.



Debra Moser
Project Manager

Attachments: Response Form and Self-Addressed, Stamped-Envelope

cc: Ms. Juliet Shin, Alameda County Health Care Services Agency
Mr. Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region
Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company

**DISCONTINUE WELL USE
AUTHORIZATION FORM FOR 1994**

DISCONTINUE WELL USE

_____ I agree to stop pumping the irrigation well located on this property until at least December 31, 1994. In exchange for this authorization, ARCO will reimburse me \$30 per month (beginning in the month that the authorization form is received). Monthly reimbursement will occur during the first week of each month, and will continue until Alameda County Health Care Services Agency approves reactivation of this well.

_____ I do not agree to stop pumping the irrigation well located on this property.

AGREED TO:

_____ Signature of Well Owner	_____ Date
_____ Please Print Name	
_____ Address	

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

May 9, 1994

Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, CA 94402

STID 779

Re: The RI/FS schedule for 17601 Hesperian Blvd., San Lorenzo,
California

Dear Mr. Whelan,

This office received Pacific Environmental's April 19, 1994 letter with the proposed Schedule of Work for the RI/FS work at the above site. This schedule is acceptable to this office. This letter also stated that the homeowners with wells located at 642 Hacienda, and 17371 and 17372 Via Magdalena refused to discontinue well use through 1994. Pumping of these wells should be discouraged because it may influence the migration of the contaminant plume and, furthermore, the homeowners should try and avoid any unnecessary exposures to contaminants, even though the Risk Assessment apparently determined that there would be no human health threat for estimated levels and exposure times. Therefore, this office is requesting that ARCO make further efforts to explain the risks of using the wells to the homeowners, in order to encourage them to reconsider their decision.

Lastly, it is the understanding of this office that ARCO is sampling the residential wells on a quarterly basis. However, no ground water sampling results for the residential wells were included in the last Quarterly Report, dated March 11, 1994. Please submit all recent lab analysis results for these ground water samples to this office.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Juliet Shin'.

Juliet Shin
Hazardous Materials Specialist

Michael Whelan
Re: 17601 Hesperian
May 9, 1994
Page 2 of 2

cc: Deborah Moser
Pacific Environmental Group
2025 Gateway Place, Ste 440
San Jose, CA 95110

Edgar Howell-File(JS)

- Wants to take Non-Attainment Zone approach for off-site plume.
- Well 633 is inoperable
 - FEDOX potential being used to assess bioremediation feasibility. Also organic acids. Requested detailed info on this to support theory of bioremed. taking place.
 - look at fingerprints of porphyrin to contaminants to assess if new or old plume.
- * Requested
 - Sand fill RA to me
- G.W. Modelling will be submitted w/ RIFS.
 - Used ModFlow Prog. MT3D to do Fate + Transp. Modelling
 - Flow gradient fairly stable w/for last yr.
 - Hydraulic Conduct 6 to 35' / day
 - Bio Decay Rate from Published Sources (110 day benzene half-life)
- Drayage - Survey Bio Decay Rates
 - Used diff. rates in first sensitivity study. Maybe more sensitivity studies should be done.

Semario's

- No Onsite Source Control; No Offsite Wells
(Shut-off Extract Well)
- Onsite Source Control; No Offsite Wells
-
- Onsite Source Control
- Onsite Source Control; All Wells pumping at Max Rate.
- Plume reaches a steady state condition in vicinity of site according to his model.
(Until source removal occurs).
 - w/ assumption that soil is constant source of leaching.
 - Joules model will include biodegradation model for soil
- Does this model fit w/ what has already happened to date. (Calibration)
- Did not consider TPH decay rate.
I guess not available.
- Non expansion of plumes indicates & possible biodegradation.

RIFS Approach

- May want install of addit. wells in critical areas.
- ✖ - Contact residents at 633 if necessary
 - Vital location.
 - Look at addit. wells if necessary.
 - How to confirm addressing soil bridging.
- Pump will be moved back down in Extract Well.



515 South Flower Street
Los Angeles, California 90071
Telephone 213 486 3825
Fax 213 486 2021

Charles A. Lapin, Ph.D.
Senior Consultant
Toxicology



**PACIFIC
ENVIRONMENTAL
GROUP INC.**

Cleve Solomon, Phd, RG
Senior Hydrogeologist/Branch Manager

650 Sierra Madre Villa, Suite 204
Pasadena, California 91107
(818) 351-4814
FAX (818) 351-4822

H. C. Winsor
Manager
Retail Marketing
Environmental
Engineering

ARCO Products Company
1055 West Seventh Street
Post Office Box 2570
Los Angeles, California 90051-0570
Telephone 213 486 2256



Division of AtlanticRichfieldCompany



**PACIFIC
ENVIRONMENTAL
GROUP INC.**

Keith Winemiller
Senior Staff Engineer

2025 Gateway Place, Suite 440
San Jose, California 95110
(408) 441-7500
FAX (408) 441-7539



**PACIFIC
ENVIRONMENTAL
GROUP INC.**

Debra J. Moser, CEG
Senior Geologist

2025 Gateway Place, Suite 440
San Jose, California 95110
(408) 441-7500
FAX (408) 441-7539



PACIFIC
ENVIRONMENTAL
GROUP, INC.

ALCO
HAZMAT

94 APR 20 PM 12: 08

April 19, 1994
Project 330-006.23

Ms. Juliet Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94612

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

This letter summarizes our April 11, 1994 telephone conversation between yourself and Ms. Debra Moser, Mr. Kelly Brown, and Mr. Keith Winemiller of Pacific Environmental Group, Inc. (PACIFIC). The purpose of the telephone call was to update Alameda County Health Care Services Agency (ACHCSA) regarding the site referenced above. The issues discussed included ARCO Product Company's (ARCO's) ongoing homeowner well quarterly sampling and discontinued well use reimbursement programs, groundwater modeling, and the remedial investigation and feasibility study (RI/FS) schedule. The purpose of this letter is summarize these issues and to also request written approval of the RI/FS schedule. In addition to your verbal approval of the schedule on April 11, 1994, written approval will allow PACIFIC to finalize and coordinate the proposed meeting between ACHCSA, Regional Water Quality Control Board (RWQCB), ARCO, and PACIFIC.

Well Sampling and Reimbursement Program

PACIFIC reviewed its letter to ACHCSA, dated April 4, 1994 which addressed this issue and included a table summary of PACIFIC's liaison with the homeowners. As noted in that letter, these programs will be continued through 1994 for all homeowner wells, except three. The homeowners with wells located at 642 Hacienda, and 17371 and 17372 Via Magdalena refused to discontinue well use through 1994. Although two of these wells have historically impacted

groundwater, the results of the health risk assessment for these three wells indicated that the potential cancer health risk is below the 1×10^{-6} threshold, and below unity for potential noncancer health risk. In addition, the homeowners with wells located at 642 Hacienda Avenue and 17371 Via Magdalena also refused to allow quarterly sampling of their domestic irrigation wells.

Modeling

PACIFIC divided the modeling task into two phases. The first phase includes groundwater flow and fate and transport modeling. The second phase will simulate the effects of potential remedial alternatives. PACIFIC is currently proceeding with the first phase of modeling, which should be completed in May 1994. The second phase of modeling should begin in July 1994 and be completed in September 1994.

RI/FS Schedule

PACIFIC presented the schedule for completion of the RI/FS, including meeting with ACHCSA and RWQCB. This schedule is presented below.

<u>Activity</u>	<u>Date</u>
PACIFIC Completes Phase I Modeling	05/16/94
ACHCSA/RWQCB/ARCO/PACIFIC Meeting	07/08/94
Summarizes results of additional investigations and actions to date, presents risk assessment and modeling results, and recommends RI/FS direction.	
PACIFIC Begins RI/FS Report Preparation	07/15/94
PACIFIC Completes Phase II Modeling	09/09/94
PACIFIC Submits RI/FS to ACHCSA	11/23/94

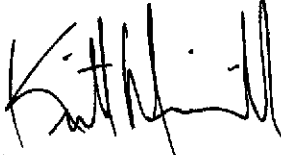
April 19, 1994

Page 3

If you have any questions regarding this project, please call.

Sincerely,

Pacific Environmental Group, Inc.



Keith Winemiller
Project Engineer

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency
Dr. Ravi Arulanantham, Alameda County Health Care Services Agency
Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Dr. Charles Lapin, ARCO Products Company
Mr. John Meck, ARCO Products Company
Mr. Richard Hiatt, Regional Water Quality Control Board -
S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

ALCO
HAZMAT

94 APR 21 AM 10:43

April 19, 1994
Project 330-006.23

Ms. Juliet Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94612

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

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groundwater, the results of the health risk assessment for these three wells indicated that the potential cancer health risk is below the 1×10^{-6} threshold, and below unity for potential noncancer health risk. In addition, the homeowners with wells located at 642 Hacienda Avenue and 17371 Via Magdalena also refused to allow quarterly sampling of their domestic irrigation wells.

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RI/FS Schedule

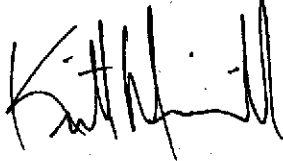
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PACIFIC Begins RI/FS Report Preparation	07/15/94
PACIFIC Completes Phase II Modeling	09/09/94
PACIFIC Submits RI/FS to ACHCSA	11/23/94

If you have any questions regarding this project, please call.

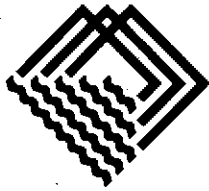
Sincerely,

Pacific Environmental Group, Inc.



Keith Winemiller
Project Engineer

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency
Dr. Ravi Arulanantham, Alameda County Health Care Services Agency
Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Dr. Charles Lapin, ARCO Products Company
Mr. John Meck, ARCO Products Company
Mr. Richard Hiatt, Regional Water Quality Control Board -
S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP INC.

ALCO
HAZMAT

94 APR -6 PH 1:23

April 4, 1994
Project 330-006.23

Ms. Juliet Shin
Alameda County Health Agency Care Services
Division of Hazardous Materials
80 Swan Way, Room 350
Oakland, California 94621

Re: Domestic Irrigation Well Sampling and Reimbursement Programs
ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company (ARCO), provides notification regarding sampling and discontinued well use for domestic irrigation wells at the site referenced above. PACIFIC on behalf of ARCO is continuing with quarterly sampling of the domestic irrigation wells, and reimbursement program for discontinued well use for the year 1994. On February 10, 1994, PACIFIC issued to each domestic irrigation well owner a Quarterly Groundwater Sampling and Discontinue Well use Authorization Form for 1994. The forms were to be completed and returned to PACIFIC. A summary of well owner liaison is presented in Table 1.

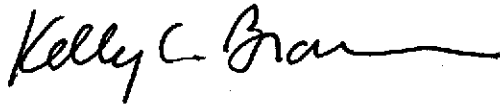
Please note that three homeowners will not discontinue well use through 1994. Two of the three homeowner wells have historically had impacted groundwater at less than 10 parts per billion benzene. These two wells have been used and will continue to be used in the assessment of public health risks.

April 4, 1994
Page 2

If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

A handwritten signature in cursive script that reads "Kelly C. Brown". The signature is written in black ink and is positioned above the typed name.

Kelly C. Brown
Project Geologist

Attachments: Table 1 - Domestic Irrigation Well Owner Liaison Summary

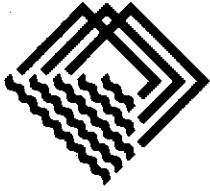
cc: Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company
Mr. Rich Hiatt, Regional Water Quality Control Board - S.F. Bay Region

Table 1
Domestic Irrigation Well Owner Liaison Summary

ARCO Service Station 0608
 17601 Hesperian Boulevard
 San Lorenzo, California

Well I.D./Address	1994 Discontinue Well Use				1994 Quarterly Sampling		
	Authorization	Date	Follow-Up Request	Reimbursement Started	Authorization	Date	Follow-Up Request
590 Hacienda Avenue	Yes	02/12/94	N/A	02/24/94 (1)	Yes	02/12/94	N/A
633 Hacienda Avenue			#				#
634 Hacienda Avenue	(2)	N/A	N/A	N/A	(2)	N/A	N/A
642 Hacienda Avenue	No*	02/23/94	N/A	N/A	No	02/23/94	N/A
675 Hacienda Avenue	Yes	2/21/94	N/A	2/24/94 (1)	Yes	2/21/94	N/A
17197 Via Magdalena	Yes	02/22/94	N/A	(3)	Yes	02/22/94	N/A
17200 Via Magdalena	Yes	02/14/94	N/A	02/24/94 (1)	Yes	02/14/94	N/A
17203 Via Magdalena	Yes	02/13/94	N/A	02/24/94 (1)	Yes	02/13/94	N/A
17302 Via Magdalena	No	02/14/94	N/A	N/A	Yes	02/14/94	N/A
17348 Via Encinas	Yes	03/11/94	N/A	(3)	Yes	03/11/94	N/A
17349 Via Magdalena	Yes	02/12/94	N/A	02/24/94 (1)	Yes	02/12/94	N/A
17371 Via Magdalena	No (5)**			N/A	No(5)**		
17372 Via Magdalena	No***	02/12/94	N/A	N/A	Yes	02/12/94	N/A
17393 Via Magdalena	Yes	03/09/94	N/A	02/24/94 (4)	Yes	03/09/94	N/A

Notes:
 N/A = Not applicable
 (1) = Denotes reimbursement for January and February 1994
 (2) = Can not sample well due to pump blocking access
 (3) = Denotes reimbursement will begin for March 1994
 (4) = Denotes reimbursement for January 1994
 (5) = Denotes change in status of well use and sampling.
 # = PACIFIC will issue follow-up letter week of April 4, 1994
 * = Homeowner signed form - wants to continue well use and will not allow sampling of well
 ** = Homeowner would not sign form - does not want anyone on his property and wants to continue well use and will not allow sampling of well. This was conveyed by Mr. Manry to PACIFIC during a telephone conversation
 *** = Homeowner signed form - wants to continue well use and will allow sampling of well



PACIFIC
ENVIRONMENTAL
GROUP, INC.

ALCO
HAZMAT
93 NOV 10 AM 10:56

November 4, 1993
Project 330-06.23

Ms. Juliett Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94612

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

On behalf of ARCO Products Company (ARCO), Pacific Environmental Group, Inc. (PACIFIC) is conducting environmental services at the site referenced above. This letter confirms a telephone conversation between Dr. Ravi Arulananthan with the Alameda County Health Care Services Agency (ACHCSA) and Mr. Keith Winemiller (PACIFIC) on November 2, 1993 regarding the referenced site.

Based on the conversation, it is PACIFIC's understanding that the modified risk assessment results, indicating risk below levels established by the State of California, have been approved by ACHCSA. **Consequently, Remedial Investigation and Feasibility Study (RIFS) report requirements will be changed. PACIFIC would therefore like to schedule a meeting between ARCO, ACHCSA (including Dr. Arulananthan), and PACIFIC to discuss these changes.** Due to scheduling conflicts between PACIFIC, ARCO, ACHCSA, and the upcoming holidays, **PACIFIC proposes to schedule the meeting in January 1994. As a result, submittal of the RIFS report has been rescheduled from fourth quarter 1993 to second quarter 1994.** PACIFIC will provide ACHCSA with a detailed schedule for the RIFS submittal following the January 1994 meeting.

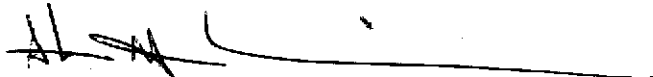
November 4, 1993

Page 2

PACIFIC will contact you in December 1993 to arrange a convenient day and time for the meeting. If you have any questions regarding this letter, please do not hesitate to call.

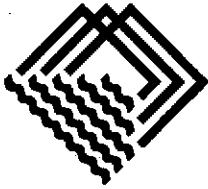
Sincerely,

Pacific Environmental Group, Inc.



Shaw E. Garakani
Project Engineer

cc: Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company
Dr. Charles Lapin, ARCO Products Company
Ms. Susan Hugo, Alameda County Health Care Services Agency
Mr. Richard Hiatt, Regional Water Quality Control Board -
S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

93 NOV -5 PM 12:35

November 4, 1993
Project 330-06.23

Ms. Juliatt Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94612

Re: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Shin:

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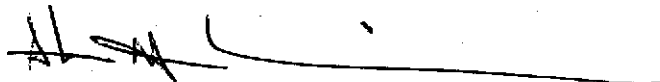
November 4, 1993

Page 2

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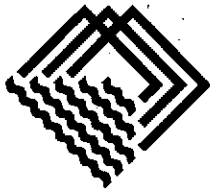
Sincerely,

Pacific Environmental Group, Inc.



Shaw E. Garakani
Project Engineer

cc: Mr. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company
Dr. Charles Lapin, ARCO Products Company
Ms. Susan Hugo, Alameda County Health Care Services Agency
Mr. Richard Hiatt, Regional Water Quality Control Board -
S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

93 MAR 05 09 01 19

March 4, 1993
Project 330-06.14

MEMORANDUM

To: Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

cc: Ms. Susan Hugo, ACHCSA
Dr. Ravi Arulananthan, ACHCSA
Ms. Juliett Shin, ACHCSA
Mr. Richard Heitt, RWQCB
Mr. Chris Winsor, ARCO
Dr. Charles Lapin, ARCO

From: Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, California 95110

Subject: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

This memorandum summarizes the main topics of the meeting between Alameda County Health Care Services Agency (ACHCSA), Regional Water Quality Control Board, San Francisco Region (RWQCB), ARCO Products Company (ARCO), and Pacific Environmental Group, Inc. (PACIFIC) conducted on February 5, 1993 regarding the above referenced site. Meeting attendees included: ACHCSA - Ms. Susan Hugo, Mr. Ravi Arulananthan, and Ms. Juliett Shin; RWQCB - Mr. Richard Heitt; ARCO - Mr. Chris Winsor, Mr. Charles Lapin, and Mr. Mike Whelan; PACIFIC - Ms. Debra Moser, Mr. Kelly Brown, and Mr. Keith Winemiller. The topics discussed, and subsequent action items are summarized below:

PROJECT OVERVIEW

Mr. Brown presented a summary of site history and current site conditions. This included: (1) a site description involving the underground storage tanks, on- and off-site monitoring wells, and off-site domestic irrigation wells; (2) previous investigation activities of Emcon Associates, Applied GeoSystems, Gettler-Ryan, Engineering Science and Technology, and PACIFIC; (3) previous investigation results, including lithology, soil concentrations, and groundwater concentrations in monitoring wells and domestic irrigation wells; and (4) a discussion of regulatory compliance. The monitoring wells are on a quarterly monitoring schedule, and PACIFIC is seeking permission from the domestic irrigation water well owners to conduct quarterly monitoring in those wells.

- o Mr. Arulananthan requested a copy of the analytical chromatograph of Well 17349 for the December 1992 sampling event.

RI/FS SCHEDULE

Mr. Winemiller presented the revised remedial investigation and feasibility study (RI/FS) schedule. This schedule was included in the Remedial Investigation Work Plan as Figure 11. Mr. Winemiller indicated that completion of the RI/FS is predicated on completion of the Remedial Investigation, Risk Assessment, and Modeling Phases. Mr. Winemiller briefly described each of these phases, and the following assumptions to estimate their completion time: ACHCSA review period of 60 days, ARCO review period of 30 days, and PACIFIC report preparation time of approximately 4 to 5 weeks. Completion of the RI/FS is scheduled for November 1993.

- o A consensus was reached by all parties to expedite report preparation and review time, when possible, to accelerate the RI/FS schedule.
- o Mr. Arulananthan questioned how a risk assessment would be used in conjunction with the RI/FS. The risk assessment will be utilized to determine the health risk to the domestic irrigation water well owners and will also serve to develop remedial objectives.

REMEDIAL INVESTIGATION WORK PLAN

Mr. Brown presented a summary of the remedial investigation work plan. Mr. Brown explained: (1) the proposed scope of work; (2) the exploratory soil boring, and groundwater monitoring and soil vapor extraction well installation program; (3) the proposed air sparging, soil vapor extraction, aquifer, and biofeasibility testing; (4) the proposed groundwater and solute transport modeling; and (5) reporting format and schedule for the scope of work. The remedial investigation work plan (PACIFIC,

February 4, 1993) was distributed to the regulatory agency attendees at the conclusion of the meeting.

- o Mr. Arulananthan questioned why there has been a delay in RI/FS preparation if the source release occurred in 1988, or earlier. Preparation of the RI/FS is predicated on completing a comprehensive investigation of the petroleum-affected areas and site conditions. Since 1988, ARCO has: (1) removed and replaced the underground storage tanks, (2) removed impacted soil, (3) installed and routinely monitored over 20 on- and off-site monitoring wells, (4) installed and currently operates an on-site interim groundwater remedial system which has achieved on-site primary source removal and hydraulic control of the on-site plume, and (5) established a quarterly monitoring program to sample 14 domestic irrigation water wells. Currently, ARCO has prepared a remedial investigation work plan to complete all remaining on- and off-site investigative work.

OCTOBER 1992 ACHCSA LETTER REGARDING OIL/WATER SEPARATOR

Mr. Brown presented a summary of the previous and proposed oil/water separator (OWS) investigative activities. Mr. Brown explained the: (1) previous work performed by Gettler-Ryan and Emcon Associates; (2) OWS soil sampling results; and (3) proposed soil sampling program. The remedial investigation work plan (PACIFIC, February 4, 1993) proposed a soil sampling program to investigate the nature and extent of affected soils adjacent to the OWS. A remedial work plan will be prepared once the nature and extent of impact is defined.

RISK ASSESSMENT PARAMETER VALUES LETTER

Mr. Winemiller presented a summary of previous and current risk assessment activities. Mr. Winemiller also presented a summary of the risk assessment parameter values letter submitted to ACHCSA in December 1992. This letter requested ACHCSA approval to utilize site-specific conditions to determine health risk to the domestic irrigation water well owners. Site-specific parameter values under consideration include: (1-2) benzene concentration in groundwater and air, (3) groundwater ingestion, and (4-6) exposure time, frequency, and duration. Mr. Winemiller presented with justification the proposed values for each of these risk assessment parameters. Mr. Winemiller emphasized the importance to work closely with ACHCSA to determine the site-specific risk assessment parameters.

- o Mr. Arulananthan indicated that the IRIS slope factor for benzene should be used for health risk determination.

- o Mr. Arulanathan indicated that the highest benzene concentration in water should be used for health risk determination. Sufficient data is currently not available to use benzene concentration averaging as PACIFIC proposed.
- o Mr. Arulanathan questioned the air sampling data since the values in some cases are lower than background benzene concentrations, and questioned if volatilization of benzene from irrigated groundwater could be modeled.
- o Mr. Arulanathan questioned if the petroleum-affected plume is stabilized, and requested data regarding the total dissolved solids and groundwater quality analytical results.
- o Mr. Arulanathan indicated that the proposed exposure duration does not reflect site conditions, and suggested that PACIFIC determine the age and residence time of each potentially-affected homeowner.
- o Mr. Arulanathan agreed with ARCO's approach to use site-specific parameter values to determine site health risk. Mr. Arulanathan also agreed to work closely with ARCO and PACIFIC to determine the site-specific parameters. Mr. Arulanathan will contact PACIFIC in approximately 2 weeks to schedule a meeting to discuss the site-specific parameter values.
- o Dr. Arulanathan again questioned how the risk assessment would be used in conjunction with the RI/FS. Mr. Winemiller suggested that the risk assessment will be utilized to determine the health risk to the domestic irrigation well owners and will also serve to develop remedial objectives. Dr. Arulanathan indicated that the RWQCB's non-degradation of groundwater policy may be applied to determine the cleanup objectives. Dr. Lapin indicated that cleanup objectives should be based on health risk. Mr. Hiatt indicated that the water code specifies that remedial objectives must be practical.

DOMESTIC IRRIGATION WELL USE STATUS

Ms. Debra Moser presented a brief history and current status of domestic irrigation water well use. Ms. Moser indicated that, per the request of ACHCSA, ARCO requested in January 1993 that all domestic irrigation water well owners discontinue pumping from their wells, and that ARCO would compensate the well owners for the loss of well use. Ms. Moser indicated that three well owners have agreed to stop using their wells, including the owner of Well 17349. Ms. Moser also indicated that ARCO has no legal recourse or enforcement capability if the well owners refuse to stop using

their irrigation wells, or simply do not respond to ARCO's requests. Ms. Moser emphasized that ARCO is seeking to work closely with ACHCSA to see that all irrigation wells are not used until health risk has been determined.

- o Ms. Hugo indicated that ACHCSA would be willing to work with ARCO to see that all irrigation wells are not used until health risk is determined. Also, Ms. Hugo indicated that ACHCSA will research the Alameda County's legal position to enforce closure of the irrigation wells.
- o Ms. Hugo requested that ARCO submit a follow-up letter to the domestic irrigation water well owners who have not responded to ARCO's request to discontinue well use.
- o Ms. Hugo requested that ARCO prepare a letter to ACHCSA describing the status of well use, how ARCO might temporarily disconnect well equipment, and the reason why domestic irrigation water well owners should discontinue well operation. This letter will be prepared following issuance of ARCO's follow-up letter to the well owners.

MEETING WRAP-UP

Ms. Moser expressed appreciation to ACHCSA and RWQCB for their time commitment to attend this meeting. Ms. Moser also reiterated the following action items:

- o PACIFIC will prepare and issue meeting minutes for all attendees.
- o PACIFIC will prepare and issue a follow-up letter to the domestic irrigation water well owners reiterating ARCO's request for quarterly groundwater monitoring and discontinued use of domestic irrigation water wells.
- o PACIFIC will prepare and issue a letter to ACHCSA describing the status of well use, and the reason why domestic irrigation water well owners should discontinue well operation. This letter will be prepared after issuance of the follow-up letter described above.
- o Mr. Arulanathan will contact Mr. Winemiller to schedule a meeting to discuss risk assessment parameter values.
- o Ms. Shin will contact Mr. Brown once ACHCSA review of the remedial investigation work plan is complete.



PACIFIC
ENVIRONMENTAL
GROUP INC.

931027 01 2 13

March 4, 1993
Project 330-06.14

MEMORANDUM

To: Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

cc: Dr. Charles Lapin, ARCO
Dr. Ravi Arulanantham, ACHCSA
Mr. Chris Winsor, ARCO

From: Mr. Keith Winemiller
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, California 95110

Subject: ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

This memorandum presents the minutes of the meeting between Alameda County Health Care Services Agency (ACHCSA), ARCO Products Company (ARCO), and Pacific Environmental Group, Inc. (PACIFIC) conducted on February 24, 1993 regarding the above referenced site. Meeting attendees included: ACHCSA - Dr. Ravi Arulanantham, ARCO - Dr. Charles Lapin (via telephone), and PACIFIC - Mr. Keith Winemiller. The purpose of this meeting was to discuss the risk assessment parameter values proposed in PACIFIC's letter to ACHCSA, dated December 8, 1992. The main discussion topics and subsequent action items are summarized below:

- o Dr. Arulanantham indicated that he supports the utilization of site-specific risk assessment parameters to more closely determine site-specific health risk. However, Dr. Arulanantham indicated that, due

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- o Ms. Shin will contact Mr. Brown once ACHCSA review of the remedial investigation work plan is complete.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

February 18, 1993

Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, CA 94402

STID 779

RE: ARCO Service Station #0608, located at 17601 Hesperian
Blvd., San Lorenzo, California

Dear Mr. Whelan,

This office has reviewed Pacific Environmental Group, Inc.'s work plan, dated February 4, 1993, presenting proposals for further investigations and various remediation options for the above site. This work plan is acceptable to this office. Per the conversation between Mr. Kelly Brown and myself on February 10, 1993, a minimum of one soil sample shall be analyzed from each of the off-site boring locations. Additionally, soil samples collected from on-site monitoring wells will be analyzed if there are any stains, odors, or readings on the Photoionization Detector observed from the samples.

From the above conversation, it is also our understanding that follow-up letters to the homeowners will be sent out in the next two weeks, after most of the homeowners have had the opportunity to respond to the January 1993 letters.

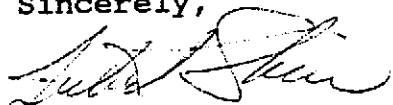
Lastly, any questions or discussions regarding the risk assessment should be referred to Ravi Arulanathanam. The work plan states that "the risk assessment results will be used in the RI/FS process to target remedial goals." However, please keep in mind that the possibility exists that the remedial goals established in the risk assessment may not be those acceptable to the regulating agencies.

Per the discussions in the meeting on February 5, 1993, field work shall commence, as outlined in the Remedial Investigation and Feasibility Study Schedule, immediately after the work plan is approved by this office.

Quarterly monitoring of the wells shall continue until this site qualifies for RWQCB "sign-off". If you have any questions or comments, please contact me at (510) 271-4530.

Mr. Michael Whelan
Re: ARCO Service Station #0608
Page 2 of 2
February 18, 1993

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Richard Hiatt, RWQCB

Ravi Arulanantham, Alameda County Health Dept.

Kelly Brown
Pacific Environmental Group, Inc.
2025 Gateway Place, Ste. 440
San Jose, California 95110

Keith Winemiller
Pacific Environmental Group, Inc.
2025 Gateway Place, Ste. 440
San Jose, California 95110

~~Edger Howell-File~~ (JS) 

AGENDA
ACHCS/ARCO MEETING - FEBRUARY 5, 1993
ARCO SERVICE STATION 608
17601 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

1. **Project Overview (10:00 - 10:10) - Kelly Brown**
 - o Site History
 - o Current Site Conditions
2. **RI/FS Schedule (10:10 - 10:30) - Keith Winemiller**
 - o Presentation and Review
3. **Remedial Investigation Work Plan (10:30 - 10:50) - Kelly Brown**
 - o Presentation and Review
4. **October 1992 ACHCS Letter Regarding Oil/Water Separator (10:50 - 11:10) - Kelly Brown**
 - o Proposed Characterization Activities
5. **Risk Assessment Parameter Values Letter (11:10 - 11:30) - Keith Winemiller**
 - o Summary of Previous Work
 - o Proposed Risk Assessment Parameter Values
6. **Domestic Irrigation Well Use Status (11:30 - 11:50) - Debra Moser**
 - o Sampling History
 - o Current Issues
7. **Meeting Wrap-Up (11:50 - 12:00) - Debra Moser**
 - o Action Items

AGENDA
ARCO/ACHCS MEETING - FEBRUARY 5, 1993
ARCO SERVICE STATION 608
17601 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

1. **PROJECT OVERVIEW (10:00 - 10:10)**

2. **RISK ASSESSMENT PARAMETER VALUES LETTER (10:10 - 10:30)**

3. **REMEDIAL ACTION SCHEDULE (10:30 - 10:50)**

4. **REMEDIAL INVESTIGATION WORK PLAN (10:50 - 11:10)**

5. **OCTOBER 1992 ACHCS LETTER REGARDING OIL/WATER SEPARATOR (11:10 - 11:30)**

6. **DOMESTIC WELL USE STATUS (11:30 - 11:50)**

7. **WRAP-UP (11:50 - 12:00)**

92 JUN 14 11 6:00

January 13, 1993

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1992; also included are projected site activities for the first quarter of 1993 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



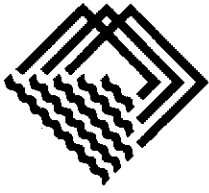
Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

UST LEAK SITE UPDATE	Date of Last Review/Update <u>September 30, 1992</u>	Current Date <u>December 31, 1992</u>
SITE IDENTIFICATION		
Name	<u>ARCO Products Company 0608</u>	Case No. _____
Address	<u>17601</u> <small>Street Number</small>	<u>Hesperian Boulevard at Hacienda</u> <small>Street</small>
	<u>San Lorenzo</u> <small>City</small>	<u>94580</u> <small>ZIP Code</small>
County	<u>Alameda</u>	Substance <u>Gasoline</u>
Local Agency	<u>Alameda Co. - Environmental Health Department</u>	
Regional Board	<u>S.F. Bay Region</u>	
LEAD STAFF PERSON <u>Pamela Evans</u>		
CASE TYPE		
<input type="checkbox"/>	Undetermined	<input type="checkbox"/>
<input type="checkbox"/>	Soil Only	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Groundwater	<input type="checkbox"/>
<input type="checkbox"/>	Drinking Water	<input type="checkbox"/>
STATUS (Date indicates when case moved into status)		
<input type="checkbox"/>	No Action Taken	Date _____
<input checked="" type="checkbox"/>	Leak Being Confirmed	Date <u>11/85</u>
<input checked="" type="checkbox"/>	Preliminary Site Assessment Workplan Submitted	Date <u>10/04/89</u>
<input checked="" type="checkbox"/>	Preliminary Site Assessment Underway	Date <u>1985</u>
<input checked="" type="checkbox"/>	Pollution Characterization	Date <u>In Progress</u>
<input checked="" type="checkbox"/>	Remediation Plan	Date <u>1988</u>
<input checked="" type="checkbox"/>	Remedial Action Underway	Date <u>1988</u>
<input type="checkbox"/>	Post Remedial Action Monitoring	Date _____
<input type="checkbox"/>	Case Referred to Regional Board	Date _____
<input type="checkbox"/>	Case Referred to Department of Health Services	Date _____
<input type="checkbox"/>	Case Closed	Date _____
REMEDIAL ACTIONS Groundwater remediation is in progress.		
COMMENTS:		
<i>Last Quarter Activities:</i> Performed quarterly groundwater monitoring and reporting. Monitored groundwater remediation system. Collected water samples from two domestic irrigation wells for drinking water quality analysis and collected air bag samples for air quality analysis.		
<i>Current Quarter Activities:</i> Performed quarterly groundwater monitoring and reporting. Monitored groundwater remediation system. Prepared and issued response to Alameda County Health Care Services (ACHS) letter regarding March 1992 risk assessment letter. Prepare work plan proposing on- and off-site soil and groundwater characterization. Perform groundwater monitoring of domestic irrigation wells.		
<i>Next Quarter Activities:</i> Perform quarterly groundwater monitoring and reporting. Monitor groundwater remediation system. Prepare and issue work plan proposing on- and off-site soil and groundwater characterization. Attend meeting with ACHCS, and RWQCB regarding site status.		
Reports documenting the site's history are listed on page 2.		

Table 1
**Site Document Reports for
 ARCO Products Company Station 608**

Report	Date	Consultant
Site Assessment	11/85	Emcon Associates
Site Assessment	03/88	Applied Geosystems
Work Plan (Includes 1988 tank removal and 1989 soil gas survey results)	10/04/89	Pacific Environmental Group, Inc.
Aquifer Test	04/13/90	Pacific Environmental Group, Inc.
Soil and Groundwater Assessment	01/02/91	Pacific Environmental Group, Inc.
Work Plan	02/13/91	Pacific Environmental Group, Inc.
Site Status Letter	06/12/91	Pacific Environmental Group, Inc.
Progress Letter	08/15/91	Pacific Environmental Group, Inc.
Site Assessment Report	12/16/91	Pacific Environmental Group, Inc.
Risk Assessment Letter	02/03/92	Pacific Environmental Group, Inc.
Off-Site Domestic Well Sampling Letter including February 1992 Risk Assessment Letter	03/13/92	Pacific Environmental Group, Inc.
Alameda County Health Care Service Response Letter	11/30/92	Pacific Environmental Group, Inc.
Quarterly groundwater monitoring has been conducted since March 1989.		



PACIFIC
ENVIRONMENTAL
GROUP, INC.

02.27.93 10:00:00

December 29, 1992
Project 330-06.14

Ms. Susan Hugo
Department of Environmental Services
Hazardous Materials Division
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, California 94621

Re: ARCO Service Station 608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Ms. Hugo:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company (ARCO), presents confirmation and a tentative agenda for the proposed meeting between ARCO, the Alameda County Health Care Services (ACHCS), and Regional Water Quality Control Board (RWQCB) in regards to the site referenced above.

The meeting has been scheduled for February 5, 1993 to be held at the ACHCS. It is anticipated that the meeting will last from 10:00 AM to 12:00 AM.

~~of the meeting, including the agenda, location, date, time, and participants, provided to ACHCS and RWQCB with the tentative action schedule and status of the investigative and remedial activities, and status of domestic irrigation release. tentative meeting agenda, proposed by ARCO, is presented in Attachment A.~~

The following have been contacted in regards to attending the meeting:
Ms. Juliett Shin (ACHCS), Mr. Ravi Arulananpham (ACHCS), Mr. Rich Hiatt (RWQCB), Mr. Charles Lapin (ARCO), Mr. Michael Whelan (ARCO), Mr. Chris Winsor (ARCO), Mr. Kelly Brown (PACIFIC), Ms. Debra Moser (PACIFIC), and Mr. Keith Winemiller (PACIFIC).

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Kelly C. Brown
Project Geologist

Attachments: Attachment A - Agenda - ARCO/ACHCS Meeting
February 5, 1993

cc: **Ms. Juliatt Shin, Alameda County Health Care Services**
Mr. Ravi Arulananpham, Alameda County Health Care Services
Mr. Chris Winsor, ARCO Products Company
Mr. Michael Whelan, ARCO Products Company
Mr. Charles Lapin, ARCO Products Company
Mr. Rich Hiatt, Regional Water Quality Control Board - San Francisco
Bay Region

(6/11/92)

LIST OF ARCO SITES WITH UGT CLEANUP

<u>STID#</u>	<u>ACHD CONTACT</u>	<u>ARCO FACILITY#</u>	<u>ADDRESS</u>
3629	Susan Hugo	Station 2112	1260 Park Street Alameda 94501
817	Juliet Shin	Station 5387	20200 Hesperian Blvd. Hayward 94541
3943	Scott Seery	Station 2152	22141 Center Street Castro Valley 94546
3883	Susan Hugo	Station 6113	785 E. Stanley Blvd. Livermore 94550
3873	Susan Hugo	Station 771	899 Rincon Avenue Livermore 94550
1053	Scott Seery	Station 6041	7249 Village Parkway Dublin 94568
779	Juliet Shin	Station 608	17601 Hesperian Blvd. San Lorenzo 94580
3876	Barney Chan	Station 2185	9800 East 14th Street Oakland 94603
3756	Barney Chan	Station 276	10600 MacArthur Blvd. Oakland 94605
3874	Susan Hugo	Station 4931	731 W. MacArthur Blvd. Oakland 94609
3884	Susan Hugo	Station 374	6407 Telegraph Avenue Oakland 94609
3626	Susan Hugo	Station 6148	5131 Shattuck Avenue Oakland 94609
3890	Barney Chan	Station 2107	3310 Park Blvd. Oakland 94610
3854	Barney Chan	Station 4494	566 Hegenberger Road Oakland 94621
3793	Susan Hugo	Station 2169	889 W. Grand Ave. Oakland 94607
3858	Barney Chan	Station 2035	1001 San Pablo Avenue Albany 94706
0000	Scott Seery	Station 601	712 Lewelling Blvd. San Leandro 94579

Site Brief for GENERATORS
for the City of Dublin

as of 12/28/90 page 1

StID#	Name of Site	Site Address	Zip	LastInsp	#Empl	Sta
1053	Teutsch Enterprises,	7249 Village Pkwy.	568	02/26/90	8	C
1893	Arco Station #02147	40055 Blacow Rd.	538	03/08/88	4	C
2173	Arco Station #02158	35900 Fremont Blvd.	536	08/31/88	1	C
2385	Mission Valley Arco	40077 Mission Blvd.	539	08/02/90	6	C
3006	Kolor by Marcos	2070 American Ave.	545	05/23/90	1	C
817	Arco Station #05387	20200 Hesperian Blvd.	541	01/30/90	0	I
1908	Arco Station #01319	365 Jackson St.	544	03/18/88	2	C
1862	Fairway Park Arco	29900 Mission Blvd.	544	12/18/90	2	B
2112	Spring Town Arco	909 BlueBell Dr.	550	03/19/90	2	I
198	Bill Davis Arco	2032 E. - 12th St.	606	10/30/86	2	I
1130	Freeway Arco	2740 - 98th Ave.	605	07/01/86	2	C
1038	High St. Arco	2951 High St.	619	01/29/87	2	C
* 812	Leon's Arco	4401 Market St. OAK	608	-0-	1	C
851	Mountain Blvd. Arco	2844 Mountain Blvd.	602	11/07/90	2	C
813	ARCO T & A Service	6211 San Pablo Ave.	608	-0-	2	C
* 744	Arco Station #02111	1156 Davis St.	577	07/02/86	6	C
1794	Elk Grove	2222 Grant Ave.	580	06/09/89	5	130
779	Arco Station #00608	17601 Hesperian Blvd.	580	08/05/88	5	C
3179	Carco, Inc.	30 Union Square	587	10/23/90	7	C

STATUS: C = Current I = Inactive Q = needs Questionnaire

Count = 19



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 DEC 10 10 45

December 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of November 1992 and site activities anticipated for the month of December 1992.

STATUS OF NOVEMBER 1992 ACTIVITIES:

- o Continued monitoring groundwater treatment system performance.
- o Conducted monthly meeting with ARCO regarding site activities.
- o Preparation and submittal of third quarter 1992 groundwater monitoring and remedial performance report (issued on November 30, 1992).
- o Preparation and submittal of response to Alameda County Health Care Services letter dated June 5, 1992 (issued on November 30, 1992).

ANTICIPATED WORK TO BE PERFORMED IN DECEMBER 1992:

- o Continue monitoring groundwater treatment system performance.
- o Submit risk assessment parameter values letter to Alameda County Health Care Services (ACHCS).

- o Sample site wells for fourth quarter 1992 groundwater monitoring program.
- o Preparation of off-site domestic well sampling letters.
- o Submit letters to domestic well owners regarding well use and inoperable wells.
- o Conduct monthly meeting with ARCO regarding site activities.
- o Submit draft work plan to ARCO for review. Finalized work plan will be submitted to ACHCS in January 1992.

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Ms. Juliett Shin, Alameda County Health Care Services
Ms. Susan Hugo, Alameda County Health Care Services
Mr. Eddy So, RWQCB - S.F. Bay Region

November 30, 1992

Well Homeowner
Address

Re: Inoperable Irrigation Well

Dear Homeowner:

On behalf of ARCO Products Company (ARCO), Pacific Environmental Group, Inc. (PACIFIC) attempted to sample the groundwater from the domestic irrigation well located on your property during fall 1991. Your well was not sampled due to inoperable pump equipment.

It is ARCO's understanding that the domestic irrigation well located on your property is not being used presently, and was previously used only for irrigation purposes. If at any time in the future, you intend to reactivate the well on your property, please inform ARCO, since other domestic irrigation wells in the area are under evaluation. ARCO would like to sample the groundwater from your well before the well becomes active.

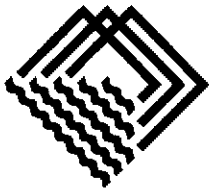
If you have any questions regarding the contents of this letter, please call me or Ms. Juliatt Shin with Alameda County Health Care Services at (510) 271-4320.

Sincerely,

ARCO Products Company

Michael Whelan
Environmental Engineer

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Charles Lapin, ARCO Products Company
Mr. John Meck, ARCO Products Company
Mr. Eddy So, RWQCB - San Francisco Bay Region
Ms. Juliatt Shin, Alameda County Health Care Services



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 NOV 10 11 21 AM '92

November 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of October 1992 and site activities anticipated for the month of November 1992.

STATUS OF OCTOBER 1992 ACTIVITIES:

- o Continued monitoring groundwater treatment system performance.
- o Continued preparation of risk assessment.
- o Submitted work plan to ARCO proposing on- and off-site soil assessment for review.
- o Performed off-site domestic well sampling program.

ANTICIPATED WORK TO BE PERFORMED IN NOVEMBER 1992:

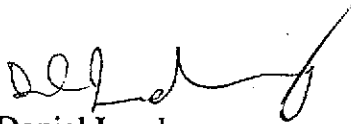
- o Continue monitoring groundwater treatment system performance.
- o Continue preparation of risk assessment.
- o Submit risk assessment parameter values letter to Alameda County Health Care Services (ACHCS).

- o Prepare and issue third quarter 1992 groundwater monitoring report.
- o Submit work plan to ACHCS after review by ARCO.

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Juliatt Shin, Alameda County - Environmental Health Department
Mr. Eddy So, RWQCB - S.F. Bay Region

October 12, 1992

92 OCT 14 PM 10:55

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

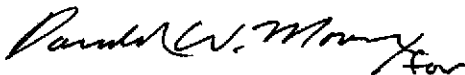
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1992; also included are projected site activities for the fourth quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

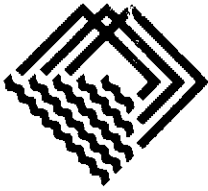
ARCO is planning the next comprehensive QSR submittal for ARCO sites on January 15, 1993. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs



PACIFIC
ENVIRONMENTAL
GROUP INC.

92 OCT 13 11 21 28

October 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of September 1992 and site activities anticipated for the month of October 1992.

STATUS OF SEPTEMBER 1992 ACTIVITIES:

- o Continued monitoring groundwater treatment system performance.
- o Prepared and submitted draft second quarter 1992 groundwater monitoring report to ARCO Products Company (ARCO) for review on September 14, 1992.
- o Sampled site wells for third quarter 1992 groundwater monitoring program.

ANTICIPATED WORK TO BE PERFORMED IN OCTOBER 1992:

- o Continue monitoring groundwater treatment system performance.
- o Continue preparation of risk assessment
- o Perform off-site domestic well sampling program.

October 10, 1992

Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Juliett Shin, Alameda County - Environmental Health Department
Mr. Eddy So, RWQCB - S.F. Bay Region

UST LEAK SITE UPDATE	Date of Last Review/Update <u>June 30, 1992</u>	Current Date <u>September 30, 1992</u>
SITE IDENTIFICATION		
Name	<u>ARCO Products Company 0608</u>	Case No. _____
Address	<u>17601</u> <small>Street Number</small>	<u>Hesperian Boulevard at Hacienda</u> <small>Street</small>
	<u>San Lorenzo</u> <small>City</small>	<u>94580</u> <small>ZIP Code</small>
County	<u>Alameda</u>	Substance <u>Gasoline</u>
Local Agency	<u>Alameda Co. - Environmental Health Department</u>	
Regional Board	<u>S.F. Bay Region</u>	
LEAD STAFF PERSON <u>Pamela Evans</u>		
CASE TYPE		
<input type="checkbox"/> Undetermined <input type="checkbox"/> Soil Only <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Drinking Water		
STATUS (Date indicates when case moved into status)		
<input type="checkbox"/> No Action Taken	Date	_____
<input checked="" type="checkbox"/> Leak Being Confirmed	Date	<u>11/85</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date	<u>10/04/89</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Underway	Date	<u>1985</u>
<input checked="" type="checkbox"/> Pollution Characterization	Date	<u>In Progress</u>
<input checked="" type="checkbox"/> Remediation Plan	Date	<u>1988</u>
<input checked="" type="checkbox"/> Remedial Action Underway	Date	<u>1988</u>
<input type="checkbox"/> Post Remedial Action Monitoring	Date	_____
<input type="checkbox"/> Case Referred to Regional Board	Date	_____
<input type="checkbox"/> Case Referred to Department of Health Services	Date	_____
<input type="checkbox"/> Case Closed	Date	_____
REMEDIAL ACTIONS <u>Groundwater remediation is in progress.</u>		
COMMENTS:		
<p><i>Last Quarter Activities:</i> Performed quarterly groundwater monitoring and reporting. Prepared and issued risk assessment letter and off-site domestic well sampling letter. Monitored groundwater remediation system.</p> <p><i>Current Quarter Activities:</i> Performed quarterly groundwater monitoring and reporting. Monitored groundwater remediation system. Prepared response to Alameda County Health Care Services letter regarding March 1992 risk assessment letter. Collected water samples from two domestic irrigation wells for drinking water quality analysis and collected air bag samples for air quality analysis.</p> <p><i>Next Quarter Activities:</i> Perform quarterly groundwater monitoring and reporting. Monitor groundwater remediation system. Prepare for quarterly groundwater monitoring of off-site domestic homeowner wells. Submit response to Alameda County Health Care Services letter regarding March 1992 risk assessment letter. Prepare and issue work plan proposing on and off-site assessment of soils regarding definition of the subsurface channel.</p> <p>Reports documenting the site's history are listed on page 2.</p>		

Table 1
**Site Document Reports for
 ARCO Products Company Station 608**

Report	Date	Consultant
Site Assessment	11/85	Emcon Associates
Site Assessment	03/88	Applied Geosystems
Work Plan (Includes 1988 tank removal and 1989 soil gas survey results)	10/04/89	Pacific Environmental Group, Inc.
Aquifer Test	04/13/90	Pacific Environmental Group, Inc.
Soil and Groundwater Assessment	01/02/91	Pacific Environmental Group, Inc.
Work Plan	02/13/91	Pacific Environmental Group, Inc.
Site Status Letter	06/12/91	Pacific Environmental Group, Inc.
Progress Letter	08/15/91	Pacific Environmental Group, Inc.
Site Assessment Report	12/16/91	Pacific Environmental Group, Inc.
Risk Assessment Letter	02/03/92	Pacific Environmental Group, Inc.
Off-Site Domestic Well Sampling Letter including February 1992 Risk Assessment Letter	03/13/92	Pacific Environmental Group, Inc.
Quarterly groundwater monitoring has been conducted since March 1989.		

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

October 2, 1992

Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, CA 94402

STID 779

RE: Release from Oil/Water Separator and additional sample
analysis requirements

Dear Mr. Whelan,

In recently reviewing the report, dated August 1992, regarding the removal of the oil/water separator, it was noted that up to 3,300 ppm of Total Recoverable Petroleum Hydrocarbons (TRPH) was identified in the soils beneath the former oil/water separator.

You are required to submit a work plan addressing the remediation of this soil **within 45 days** of the receipt of this letter. Please be advised that this is a formal request for technical reports pursuant to **California Water Code Section 13267 (b)**. Any extensions of the stated deadlines or modifications of the required tasks, must be confirmed in writing by either this agency or RWQCB.

Additionally, it was noted that soil samples collected from beneath the former waste oil tank in 1988 exhibited high concentrations of oil and grease, however, no ground water samples to date appear to have been analyzed for oil and grease. Furthermore, it appears that soil and ground water samples collected from the vicinity of the former waste oil tank were never analyzed for chlorinated hydrocarbons, semi-volatiles, or metals as required by the RWQCB's **Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks**. Due to this deficiency in sample analysis, you are required to analyze the ground water samples collected from MW-8 and MW-5, the nearest existing downgradient wells from the former waste oil tank, for these constituents.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,

Juliet Shin
Hazardous Materials Specialist

Mr. Michael Whelan
RE: 17601 Hesperian Blvd.
October 2, 1992
Page 2 of 2

cc: Richard Hiett, RWQCB

Jim Ferdinand, Eden Consolidated Fire Dept.

Brian Thomas
EA Engineering, Science, and Technology
41 Lafayette Circle
Lafayette, CA 94549

Kelly Brown
Pacific Environmental Group, Inc.
620 Contra Costa Blvd., Ste 209
Pleasant Hill, CA 94523

~~Edgar Howell~~-File (JS)

Off for



PACIFIC
ENVIRONMENTAL
GROUP INC.

92 SEP 11 11 51 11

September 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of August 1992 and site activities anticipated for the month of September 1992.

STATUS OF AUGUST 1992 ACTIVITIES:

- o Continued monitoring groundwater treatment system performance.
- o Prepared and submitted draft second quarter 1992 groundwater monitoring report to ARCO Products Company (ARCO) for review.
- o Performed air monitoring and domestic well sampling as requested by Alameda county Health Care Services (ACHCS) June 5, 1992 letter.
- o Initiated draft response to ACHCS June 5, 1992 letter. Issued to ARCO for review.

ANTICIPATED WORK TO BE PERFORMED IN SEPTEMBER 1992:

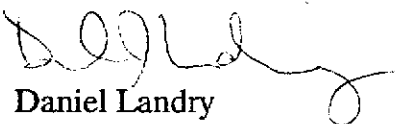
- o Continue monitoring groundwater treatment system performance.

- o Complete and prepare draft risk assessment for adult and children exposure from inhalation, dermal adsorption, and inhalation exposure pathways. Issue risk assessment draft to ARCO for review.
- o Prepare and submit second quarter 1992 groundwater monitoring report.
- o Issue revised remedial schedule to ARCO for review.
- o Sample site wells for third quarter 1992 groundwater monitoring program.
- o Issue response to ACHCS June 5, 1992 letter.
- o Prepare for off-site domestic well sampling program.

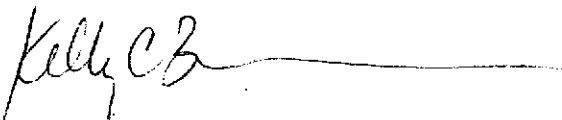
Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

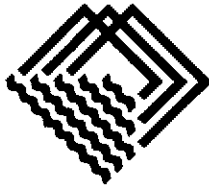


Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Juliet Shin, Alameda County - Environmental Health Department
Mr. Eddy So, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 AUG 11 11 22

August 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of July 1992 and site activities anticipated for the month of August 1992.

STATUS OF JULY 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.
- o Collected groundwater samples from two neighborhood domestic irrigation wells for drinking water analysis.
- o Collected nine air samples to obtain inhalation exposure concentrations.
- o Prepared off-site feasibility study, in progress.

ANTICIPATED WORK TO BE PERFORMED IN AUGUST 1992:


- o Continue monitoring groundwater treatment system performance.
- o Complete risk assessment for adult and children exposure from inhalation, dermal adsorption, and inhalation exposure pathways.
- o Issue revised remedial schedule to Alameda County.

- o Prepare and submit second quarter 1992 groundwater monitoring report.
- o Issue response to Alameda County June 5, 1992 letter.
- o Prepare for off-site domestic well sampling program.
- o Prepare work plan for on- and off-site soil assessment program for physical testing of soils.

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Juliet Shin, Alameda County - Environmental Health Department
Mr. Eddy So, Regional Water Quality Control Board - S.F. Bay Region

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT			
EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO	
REPORT DATE 07/21/92		CASE N/A	
FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT T. Brignon		PHONE (310) 407 2609
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		SIGNATURE T. Brignon
	COMPANY OR AGENCY NAME ARCO Products Company		
RESPONSIBLE PARTY	ADDRESS 17315 Studebaker Rd, Cerritos, CA 90701		
	NAME ARCO Products		CONTACT PERSON T. Brignon
	ADDRESS 17315 Studebaker Rd, Cerritos, CA 90701		PHONE (310) 407 2609
SITE LOCATION	FACILITY NAME (IF APPLICABLE) #608		OPERATOR Jaime & Leonora Abadam
	ADDRESS 17601 Hesperian Blvd, San Lorenzo, Alameda		PHONE (510) 278-2977
	CROSS STREET Hacienda		
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Public Health		CONTACT PERSON Tim Spates
	REGIONAL BOARD ---		PHONE ()
SUBSTANCES INVOLVED	(1) NAME gasoline		QUANTITY LOST (GALLONS) 2 gals <input type="checkbox"/> UNKNOWN
	(2) NAME ---		QUANTITY LOST (GALLONS) --- <input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 07/21/92		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Visual
	DATE DISCHARGE BEGAN 07/21/92 <input type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Shut down product line.
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 07/21/92		
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		CAUSE(S) <input checked="" type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> SOIL impact valve exploded
	CASE TYPE CHECK ONE ONLY small amount reached soil under dispenser <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)		
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY		
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) Dispatched Road Runner		
COMMENTS	for maintenance. Area cleaned up with absorbant material & placed in bag & stored at facility.		

cc: Kyle Chrishe

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.5, a government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the tank facility. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

Leak Being Confirmed - Leak suspected at site, but has not been confirmed.
Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.
Preliminary Site Assessment Underway - implementation of workplan.
Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.
Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.
Cleanup Underway - implementation of remediation plan.
Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.
Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
Containment Barrier - install vertical dike to block horizontal movement of contaminant.
Excavate and Dispose - remove contaminated soil and dispose in approved site.
Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
Remove Free Product - remove floating product from water table.
Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.
Replace Supply - provide alternative water supply to affected parties.
Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
Vacuum Extract - use pumps or blowers to draw air through soil.
Vent Soil - bore holes in soil to allow volatilization of contaminants.
No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
5. Owner/responsible party.

LISTING OF UGT CLEANUP SITES - (ALPHA:from LOP db)

as of 06/09/92

page 1

CLOSED	INSP	StID	SITE NAME	ADDRESS	CITY	ZIP
-0-	SH	3629	Arco AM/PM	1260 -0 Park St.	Alameda	94501
-0-	JM	817	Arco Petroleum	20200 -0 Hesperian Blvd.	Hayward	94541
-0-	SS	3943	Arco Station #2152	22141 -0 Center St.	Castro Valley	94546
-0-	SH	3883	Arco #6113	785 E. Stanley Blvd.	Livermore	94550
-0-	SH	3873	Arco Station #00771	899 -0 Rincon Ave.	Livermore	94550
-0-	SS	1053	Teutsch Enterprises, Inc. ARCO	7249 -0 Village Pkwy.	Dublin	94568
-0-	JM	779	Arco Station #00608	17601 -0 Hesperian Blvd.	San Lorenzo	94580
-0-	BC	3876	Arco Station #02185	9800 E. - 14th St.	Oakland	94603
-0-	BC	3756	Arco Facility #00276	10600 -0 Macarthur Blvd.	Oakland	94605
-0-	BC	198	Bill Davis Arco (Independent dealer)	2032 E. - 12th St.	Oakland	94606
-0-	SH	812	Leon's Arco (Independent dealer)	4401 -0 Market St.	Oakland	94608
-0-	SH	3874	Arco Station #04931	731 W. Macarthur Blvd.	Oakland	94609
-0-	SH	3884	Arco #0374	6407 -0 Telegraph Ave.	Oakland	94609
-0-	SH	3626	Arco #6148	5131 -0 Shattuck Ave.	Oakland	94609
-0-	BC	3890	Arco #2107	3310 -0 Park Blvd.	Oakland	94610
-0-	BC	3854	Arco Station #4494	566 -0 Hegenberger Rd.	Oakland	94621
-0-	BC	3858	Arco Facility #02035	1001 -0 San Pablo Ave.	Albany	94706
	SS		Arco Facility # 601	712 - Lewelling Blvd.	San Leandro	
	SH		Arco Facility # 2169	889 W. Grand Ave.	Oakland	94607



PACIFIC
ENVIRONMENTAL
GROUP INC.

CALIFORNIA REGIONAL WATER
JUL 20 1992
QUALITY CONTROL BOARD

July 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

(01)

Read

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of June 1992 and site activities anticipated for the month of July 1992.

STATUS OF JUNE 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.
- o Conducted liaison with Alameda County Health Care Services on June 17, 1992 (documented in June 18, 1992 Memorandum).
- o Prepare off-site feasibility study, in progress.
- o Issued consent to perform quarterly groundwater monitoring signatory letters to Homeowners on June 3, 1992.
- o Sampled site wells for quarterly groundwater monitoring program. Sampling performed by PACIFIC.

ANTICIPATED WORK TO BE PERFORMED IN JULY 1992:

- o Collect groundwater samples from two neighborhood domestic water wells for drinking water analysis.

July 10, 1992

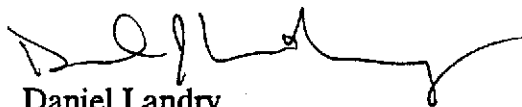
Page 2

- o Continue monitoring groundwater treatment system performance.
- o Collect five air samples to obtain inhalation exposure concentrations.
- o Complete risk assessment for adult and children exposure from inhalation, dermal adsorption, and inhalation exposure pathways.
- o Prepare and submit second quarter 1992 groundwater monitoring report.
- o Issue response to Alameda County June 5, 1992 letter.
- o Prepare for off-site domestic well sampling program.

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

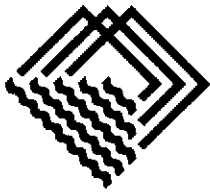


Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Juliet Shin, Alameda County - Environmental Health Department
Mr. Eddy So, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

June 10, 1992
Project 330-03.05

Mr. Michael Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of May 1992 and site activities anticipated for the month of June 1992.

STATUS OF MAY 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.
- o Issued first quarter 1992 groundwater monitoring and remedial system evaluation report on May 5, 1992.
- o Prepared and issued off-site domestic wells sampling letter to appropriate homeowners on May 13, 1992.
- o Prepare off-site feasibility study.

ANTICIPATED WORK TO BE PERFORMED IN JUNE 1992:

- o Continue monitoring groundwater treatment system performance.
- o Submit off-site feasibility study.
- o Sample site wells for quarterly groundwater monitoring program. Sampling to be performed by PACIFIC.

June 10, 1992


Page 2

- o Prepare for off-site domestic well sampling program.
- o Issued consent to perform quarterly groundwater monitoring signatory letters to Homeowners on June 3, 1992.


Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Pamela Evans, Alameda County - Environmental Health Department
Mr. Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

June 5, 1992

Chuck Carmel
ARCO Petroleum Products Co.
P.O. Box 5811
San Mateo CA 94402

**RE: ARCO Service Station 0608, 17601 Hesperian Blvd., San Lorenzo
Contaminated Offsite Domestic Wells and Groundwater Remediation**

Dear Mr. Carmel:

Environmental Health Department staff have reviewed the risk assessment, well sampling results and groundwater remediation data supplied by ARCO for the San Lorenzo site.

As outlined in the risk assessment and other documents supplied by ARCO, 10 domestic wells in the area west of station 0608 have been tested for the presence of petroleum fuel contaminants. ARCO is seeking access to test an additional 4 wells. Of the domestic wells tested, 4 contained detectable petroleum contaminants. We have identified the following issues of concern:

Increased Health Risk Levels Identified in Risk Assessment: The risk assessment identified increased health risks exceeding one in one million, yet concluded that no increased risk to the public exists. The purpose of a health risk assessment is to calculate risk, not to consider mitigation factors, particularly those over which ARCO has no control. The fact that risk has been determined to exceed 1:million indicates that mitigation actions are appropriate in this case. ARCO should explain these actions in depth in a separate document.

Completeness of the Risk Assessment: This document presents risk information for adults via oral and dermal exposure routes only. In order for the risk assessment to be considered acceptable and complete, it must also include:

1. Calculation of the total risk from exposures via oral, dermal and inhalation pathways. The exposures from these three routes must be added together to calculate total risk.
2. Separate oral, dermal and inhalation risk calculations for children must also be prepared using appropriate parameters.

Chuck Carmel
ARCO
Page 2
June 5, 1992

Offsite Well Use: We recognize that ARCO lacks legal authority to require domestic well owners to discontinue pumping and using groundwater. Nevertheless, offsite well pumping should cease until our public health risk concerns are addressed and it can be determined that ARCO's remediation efforts will not be compromised due to offsite well use. We encourage ARCO to take the lead in requesting well owner cooperation during this interim period.

Another issue of concern to this office is the effectiveness of the groundwater remediation system. The measures ARCO is currently taking appear inadequate for the extent of contamination. Only one extraction system is operating at the site, and this system does not appear to have a capture zone large enough to encompass the entire contaminant plume. In addition, continued pumping of private wells within the contaminated zone may lessen the effectiveness of the groundwater extraction system and expedite the migration of the contaminant plume.

The issues outlined above will be discussed further at the meeting scheduled for June 11, 1992 between ARCO and this office. In the interim, you may contact Ms. Juliet Shin with any questions at (510)271-4320.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

c: Mark Thomson, Alameda County District Attorney's Office
Eddy So, Regional Water Quality Control Board
Michael Wheland, ARCO
Kelly Brown, PEG, Inc.
File (35)

ARCO Products Company

10000 Wilshire Blvd, Suite 1000
Beverly Hills, California 90210
Telephone: 310 571 2400



02 MAY 1992 10 00 AM '92

May 13, 1992

Mrs. Albright
634 Hacienda Avenue
San Lorenzo, California 94580

Re: Well Sampling
634 Hacienda Avenue
San Lorenzo, California 94580

Dear Mrs. Albright:

Pacific Environmental Group, Inc. (PACIFIC), on behalf of ARCO Products Company (ARCO) attempted to sample the irrigation water-supply well located at the above referenced property on November 13, 1991. PACIFIC and ARCO would like to express their gratitude for your cooperation.

The water in the well was not accessible due to the presence of the inoperable pump at the well. Since your well is within ARCO's current study area, ARCO requests permission to dismantle the pump assembly to access your well for water sampling. The pump assembly will be reassembled to pre-sampling conditions at ARCO's expense, or if you prefer, the wellhead can be left accessible and a secure lockable well cap installed to allow future access. ARCO or our representative will contact you in regards to accessing your well.

It is ARCO's and PACIFIC's understanding that past and future well usage was and will be for irrigation purposes only. If you choose not to let ARCO gain access to the well at this time and the well becomes operable in the future, at your request, ARCO will sample the well for gasoline constituents at ARCO's expense. However, because gasoline compounds have been detected in the groundwater in your vicinity the well should not be used for any purpose other than irrigation unless advised differently by the Alameda County Department of Environmental Health. Benzene is a component of gasoline and a known carcinogen. In accordance with the provisions of Proposition 65, a health risk assessment will be performed when results from your well are available if the results indicate the

May 13, 1992

Page 2

presence of gasoline. The risk assessment will include the assumption that 1 liter of groundwater is consumed on a daily basis for 35 years. Results of risk assessments performed for wells in your area indicate no significant increase in risk. Please call me at (415)-571-2434, and/or Ms. Pamela Evans of Alameda County Health Care Services (ACHCS) at (415)-271-4320 if you have any questions regarding the contents of this letter.

Sincerely,

ARCO Products Company

ORIGINAL SIGNED BY,

Chuck Carmel
Environmental Engineer

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Charles Lapin, ARCO Products Company
Mr. John Meck, ARCO Products Company
Ms. Pamela Evans, Alameda County Health Care Services



May 13, 1992

Mr. Dahmann
633 Hacienda Avenue
San Lorenzo, California 94580

Re: Well Sampling
633 Hacienda Avenue
San Lorenzo, California 94580

Dear Mr. Dahmann:

Pacific Environmental Group, Inc. (PACIFIC), on behalf of ARCO Products Company (ARCO) attempted to sample the irrigation water-supply well located at the above referenced property on November 13, 1991. PACIFIC and ARCO would like to express their gratitude for your cooperation.

The water in the well was not accessible due to the presence of the inoperable pump at the well. Since your well is within ARCO's current study area, ARCO requests permission to dismantle the pump assembly to access your well for water sampling. The pump assembly will be reassembled to pre-sampling conditions at ARCO's expense, or if you prefer, the wellhead can be left accessible and a secure lockable well cap installed to allow future access. ARCO or our representative will contact you in regards to accessing your well.

It is ARCO's and PACIFIC's understanding that past and future well usage was and will be for irrigation purposes only. If you choose not to let ARCO gain access to the well at this time and the well becomes operable in the future, at your request, ARCO will sample the well for gasoline constituents at ARCO's expense. However, because gasoline compounds have been detected in the groundwater in your vicinity the well should not be used for any purpose other than irrigation unless advised differently by the Alameda County Department of Environmental Health. Benzene is a component of gasoline and a known carcinogen. In accordance with the provisions of Proposition 65, a health risk assessment will be performed when results from your well are available if the results indicate the

presence of gasoline. The risk assessment will include the assumption that 1 liter of groundwater is consumed on a daily basis for 35 years. Results of risk assessments performed for wells in your area indicate no significant increase in risk. Please call me at (415)-571-2434, and/or Ms. Pamela Evans of Alameda County Health Care Services (ACHCS) at (415)-271-4320 if you have any questions regarding the contents of this letter.

Sincerely,

ARCO Products Company

ORIGINAL SIGNED BY:

Chuck Carmel
Environmental Engineer

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Charles Lapin, ARCO Products Company
Mr. John Meck, ARCO Products Company
Ms. Pamela Evans, Alameda County Health Care Services

ARCO Products Company

1000 Administration Center
San Francisco, California 94103
San Mateo, California 94401
Telephone 415-871-2000



52 MAY 13 1992

May 13, 1992

Mr. and Mrs. Roberts
675 Hacienda Avenue
San Lorenzo, California 94580

Re: Well Sampling
675 Hacienda Avenue
San Lorenzo, California 94580

Dear Mr. and Mrs. Roberts:

Pacific Environmental Group, Inc. (PACIFIC), on behalf of ARCO Products Company (ARCO) attempted to sample the irrigation water-supply well located at the above referenced property on November 22, 1991. PACIFIC and ARCO would like to express their gratitude for your cooperation.

The water in the well was not accessible due to the presence of the inoperable pump at the well. Since your well is within ARCO's current study area, ARCO requests permission to dismantle the pump assembly to access your well for water sampling. The pump assembly will be reassembled to pre-sampling conditions at ARCO's expense, or if you prefer, the wellhead can be left accessible and a secure lockable well cap installed to allow future access. ARCO or our representative will contact you in regards to accessing your well.

It is ARCO's and PACIFIC's understanding that past and future well usage was and will be for irrigation purposes only. If you choose not to let ARCO gain access to the well at this time and the well becomes operable in the future, at your request, ARCO will sample the well for gasoline constituents at ARCO's expense. However, because gasoline compounds have been detected in the groundwater in your vicinity the well should not be used for any purpose other than irrigation unless advised differently by the Alameda County Department of Environmental Health. Benzene is a component of gasoline and a known carcinogen. In accordance with the provisions of Proposition 65, a health risk assessment will be performed when results from your well are available if the results indicate the

May 13, 1992

Page 2

presence of gasoline. The risk assessment will include the assumption that 1 liter of groundwater is consumed on a daily basis for 35 years. Results of risk assessments performed for wells in your area indicate no significant increase in risk. Please call me at (415)-571-2434, and/or Ms. Pamela Evans of Alameda County Health Care Services (ACHCS) at (415)-271-4320 if you have any questions regarding the contents of this letter.

Sincerely,

ARCO Products Company

ORIGINAL SIGNED BY

Chuck Carmel
Environmental Engineer

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Charles Lapin, ARCO Products Company
Mr. John Meck, ARCO Products Company
Ms. Pamela Evans, Alameda County Health Care Services



PACIFIC
ENVIRONMENTAL
GROUP, INC.

CALIFORNIA ENVIRONMENTAL QUALITY CONTROL BOARD
MAY 7 1992
[Signature]

May 8, 1992
Project 330-03.05

01

Mr. Mike Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

[Signature]
[Signature]

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of April 1992 and site activities anticipated for the month of May 1992.

STATUS OF APRIL 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.
- o Placed approximately nine telephone calls during the month of April 1992 to the Alameda County Health Care Services (ACHCS) regarding comments on Pacific Environmental Group, Inc.'s (PACIFIC's) March 13, 1992 off-site domestic wells sampling letter.
- o Faxed copy of PACIFIC's March 13, 1992 letter to ACHCS on April 24, 1992.
- o Received return calls from ACHCS on April 22 and 24, 1992, regarding comments on PACIFIC's March 13, 1992 letter.
- o Re-issued PACIFIC's March 13, 1992 letter to ACHCS on April 27, 1992.

May 8, 1992

Page 2

ANTICIPATED WORK TO BE PERFORMED IN MAY 1992:

- o Continue monitoring groundwater treatment system performance.
- o Issued first quarter 1992 groundwater monitoring and remedial system evaluation report on May 5, 1992.
- o Prepare off-site Remedial Alternative Feasibility Study.
- o Prepare and issue off-site domestic wells sampling letter to appropriate homeowners.

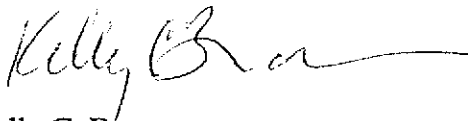
Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

 For

Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 MAY 10 10:28 11

May 8, 1992
Project 330-03.05

Mr. Mike Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
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May 8, 1992

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Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

 for

Daniel Landry
Project Engineer



Kelly C. Brown
Project Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
--	--	--

REPORT DATE 05/04/92	CASE # 23141
-------------------------	-----------------

SIGNED: Garneta J. Wess DATE: 5-15-92

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Bernetta Wess	PHONE (415) 571-2434	SIGNATURE 	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ARCO Products Co.		
	ADDRESS P.O. Box 5811 San Mateo, CA 94402			

RESPONSIBLE PARTY	NAME ARCO Products Co.	CONTACT PERSON Kyle Christie	PHONE (415) 571-2434
	ADDRESS P.O. Box 5811 (Attn: Kyle Christie) San Mateo, CA 0 94402		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) SS# 608	OPERATOR Jaime & Leonora Abadam	PHONE (510) 278-2977	
	ADDRESS 17601 Hesperian Blvd. San Leandro, CA 94580 (Alameda County)			
	CROSS STREET @ Hacienda			

IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Haz. Materials Div.	CONTACT PERSON Ed Howell	PHONE (510) 271-4320
	REGIONAL BOARD S.F. Bay Region	CONTACT PERSON Richard Hiett	PHONE (510) 464-1255

SUBSTANCES INVOLVED	(1) NAME Petroleum Hydrocarbons	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)	<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 05/04/92	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER
	DATE DISCHARGE BEGAN UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 05/04/92	

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER
--------------	--	--

CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
-----------	--

CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input checked="" type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY
----------------	--

REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)	<input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)
-----------------	--	---

COMMENTS
 Soil Sample obtained immediately beneath oil/water separator, TPH by 418.1=1,000 ppm. Oil/Water separator removed form facility.

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.5, a government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the tank facility. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

Leak Being Confirmed - Leak suspected at site, but has not been confirmed.
Preliminary Site Assessment Workplan Submitted - workplan/proposal requested/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.
Preliminary Site Assessment Underway - implementation of workplan.
Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.
Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.
Cleanup Underway - implementation of remediation plan.
Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.
Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
Containment Barrier - install vertical dike to block horizontal movement of contaminant.
Excavate and Dispose - remove contaminated soil and dispose in approved site.
Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
Remove Free Product - remove floating product from water table.
Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.
Replace Supply - provide alternative water supply to affected parties.
Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
Vacuum Extract - use pumps or blowers to draw air through soil.
Vent Soil - bore holes in soil to allow volatilization of contaminants.
No Action Required - incident is minor, requiring no remedial action.

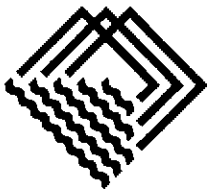
COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 944312, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
5. Owner/responsible party.



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 MAY -7 11 21 33

May 5, 1992
Project 330-06.13

Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Re: ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter presents an update prepared by Pacific Environmental Group, Inc. (PACIFIC) in regards to the letter documenting the results of off-site domestic irrigation well sampling and draft homeowners letters for the site referenced above. PACIFIC submitted the results of groundwater sampling and the draft homeowner letters to Ms. Pamela Evans with the Alameda County Health Care Services (ACHCS) in a letter dated March 13, 1992 (letter). Additionally, the results of a risk assessment performed by PACIFIC were also included as an attachment to the letter. As stated in the letter, PACIFIC requested that the ACHCS respond with any comments within a period of 30 days from the date of the letter.

The following summarizes the activities taken place to date in regards to the above referenced letter:

- o To date, neither ARCO Products Company (ARCO) nor PACIFIC has received comments from the ACHCS regarding PACIFIC's letter.
- o Between April 9 and 21, 1992, numerous telephone calls were placed by Mr. Kelly Brown with PACIFIC to Ms. Evans, requesting ACHCS comments to the letter.

- o On April 22, 1992, Ms. Evans placed a call to PACIFIC. During the telephone conversation between Mr. Brown and Ms. Evans, Ms. Evans related the fact that she had not reviewed the letter, nor had she seen the letter. Ms. Evans also stated that she was no longer the case worker for the site, and that the case had been transferred to Ms. Juliet Shin with the ACHCS, and that she would discuss the letter with Ms. Shin.
- o During a telephone conversation placed by Ms. Shin to Mr. Brown on April 22, 1992, Ms. Shin said that Ms. Evans had spoke with her about the letter. Ms. Shin was not aware of the whereabouts of the case file, and specifically, the letter. Ms. Shin also stated that the site was within her jurisdiction and that she would review the letter as soon as she locates it.
- o During a telephone conversation placed by Ms. Evans to Mr. Brown on April 28, 1992, Ms. Evans stated that she will be reviewing the case, and not Ms. Shin.

PACIFIC will continue to contact the ACHCS regarding the letter. All conversations with the ACHCS will continue to be documented. PACIFIC will submit the draft homeowner letters as final copies, when requested by ARCO.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Kelly C. Brown
Project Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Products Company
Ms. Pamela Evans, Alameda County Health Care Services
Ms. Juliet Shin, Alameda County Health Care Services

ARCO Products Company
2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400



SENTRY - 7 11 2:31

May 4, 1992

ALAMEDA CO. DEPT. OF ENV. HLTH.
HAZARDOUS MATERIALS DIVISION
Attn: Ed Howell
80 Swan Way, Room 200
Oakland, CA 94621

**SUBJECT: ARCO Facility # 608
17601 Hesperian Blvd.
San Leandro, CA 94580**

Enclosed is an Underground Storage Tank Unauthorized Release
(Leak) / Contamination Site Report for the above ARCO facility. Please distribute
the report as noted in the instructions.

Should you have any questions or comments regarding this matter, please do not
hesitate to call me at (415) 571-2434.

Sincerely,

Bernetta Wess
Environmental Administrative Assistant

Enc.

cc: Sharon Douglas, ARCO Products Company

DATE:

TO : Local Oversight Program

FROM:

SUBJ: Transfer of Eligible Oversight Case

Site name: ARCO #0608

Address: 17601 Hesperian Blvd. city San Lorenzo zip 94580

Closure plan attached? Y N DepRef remaining \$ 11.00

DepRef Project # 29c STID #(if any) 779

Number of Tanks: 5? removed? Y N ^{new tanks installed} Date of removal 6-88

Samples received? Y N Contamination: TPH + BTEX

Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents

Monitoring wells on ^{off site} site 16 ^{not all active} Monitoring schedule? Y N quarterly

LUFT category 1 2 3 * H S C A R W G O
discovery 11-25-85

Briefly describe the following:

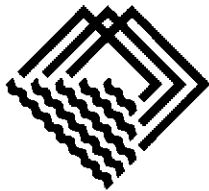
Preliminary Assessment Found F.P. on G.W. in tank pit, leak test failure

Remedial Action have GW treatment system in operation

Post Remedial Action Monitoring MW monitoring

Enforcement Action Letters

This site has a long history. The plume of contamination got well beyond the property before it was contained. Last round of MW sampling indicates plume has been contained. Remediation system in operation since 9/91. Sent letter today telling them to supply info on domestic well sampling + describe plans for future monitoring of MWs. There are more site remediation reports on this case in the file room. Pam



PACIFIC
ENVIRONMENTAL
GROUP INC.

92 APR 27 11 31 AM '92

Date April 27, 1992
Project 330-06.13

To: Ms. Pamela Evans
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

We have enclosed:

Copies	Description
<u>1</u>	<u>March 13, 1992 letter documenting Groundwater Sampling Results</u>
<u> </u>	<u>of off-site domestic irrigation wells for ARCO Service Station 0608</u>
<u> </u>	<u>located at 17601 Hesperian Boulevard at Hacienda Avenue, San Lorenzo,</u>
<u> </u>	<u>California.</u>

For your: Use
 Approval
 Review
 Information

R.A. attached

Comments: Ms. Evans: Per your request we are sending an additional copy of the
above. If you have any questions please call me at 408-984-6536. Thank you,

Kelly C. Brown 

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Charles Carmel, ARCO Products Company
Mr. Michael Whelan, ARCO Products Company
Mr. John Meck, ARCO Products Company

4/23/92
Called Don Moore (Seaco)
received GR updates of Arco

April 13, 1992

92 APR 14 PM 3:00

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

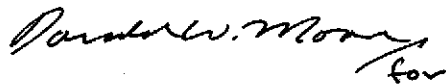
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the first quarter of 1992; also included are projected site activities for the second quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on July 15, 1992. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

UST LEAK SITE UPDATE	Date of Last Review/Update <u>December 31, 1991</u>	Current Date <u>March 27, 1992</u>
---------------------------------	---	------------------------------------

SITE IDENTIFICATION

Name ARCO Products Company 0608 Case No. _____

Address 17801 Hesperian Boulevard at Hacienda
Street Number Street

San Lorenzo 94580
City ZIP Code

County Alameda Substance Gasoline

Local Agency Alameda Co. - Environmental Health Department

Regional Board S.F. Bay Region

LEAD STAFF PERSON Pamela Evans

CASE TYPE

Undetermined Soil Only Groundwater Drinking Water

STATUS (Date indicates when case moved into status)

<input type="checkbox"/> No Action Taken	Date _____
<input checked="" type="checkbox"/> Leak Being Confirmed	Date <u>11/85</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date <u>10/04/89</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Underway	Date <u>1985</u>
<input checked="" type="checkbox"/> Pollution Characterization	Date <u>In Progress</u>
<input checked="" type="checkbox"/> Remediation Plan	Date <u>1988</u>
<input checked="" type="checkbox"/> Remedial Action Underway	Date <u>1988</u>
<input type="checkbox"/> Post Remedial Action Monitoring	Date _____
<input type="checkbox"/> Case Referred to Regional Board	Date _____
<input type="checkbox"/> Case Referred to Department of Health Services	Date _____
<input type="checkbox"/> Case Closed	Date _____

REMEDIAL ACTIONS Groundwater remediation is in progress.

COMMENTS:

Last Quarter Activities: Performed quarterly groundwater monitoring and reporting. Sampled private wells in site area. Installed and reported on additional off-site well installation.

Current Quarter Activities: Performed quarterly groundwater monitoring and reporting. Prepared and issued risk assessment letter and off-site domestic well sampling letter. Monitored groundwater remediation system.

Next Quarter Activities: Perform quarterly groundwater monitoring and reporting. Monitor groundwater remediation system. Prepare off-site RIFS.

Reports documenting the site's history are listed on page 2.

**Table 1
Site Document Reports for
ARCO Products Company Station 608**

Report	Date	Consultant
Site Assessment	11/85	Emcon Associates
Site Assessment	03/88	Applied Geosystems
Work Plan (Includes 1988 tank removal and 1989 soil gas survey results)	10/04/89	Pacific Environmental Group, Inc.
Aquifer Test	04/13/90	Pacific Environmental Group, Inc.
Soil and Groundwater Assessment	01/02/91	Pacific Environmental Group, Inc.
Work Plan	02/13/91	Pacific Environmental Group, Inc.
Site Status Letter	06/12/91	Pacific Environmental Group, Inc.
Progress Letter	08/15/91	Pacific Environmental Group, Inc.
Site Assessment Report	12/16/91	Pacific Environmental Group, Inc.
Risk Assessment Letter	02/03/92	Pacific Environmental Group, Inc.
Off-Site Domestic Well Sampling Letter	03/13/92	Pacific Environmental Group, Inc.
Quarterly groundwater monitoring has been conducted since March 1989.		



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 572 12 11 14 93

April 9, 1992
Project 330-06.12

Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Re: Progress Update
ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Whelan:

This letter presents an update prepared by Pacific Environmental Group, Inc. (PACIFIC) for on-going and proposed groundwater remediation for the site referenced above. An estimated groundwater remediation schedule (EGRS) was issued to ARCO Products Company (ARCO) dated January 24, 1992, detailing past, present, and proposed groundwater remediation at the site. Work proposed in PACIFIC's January 24, 1992 EGRS is progressing as scheduled.

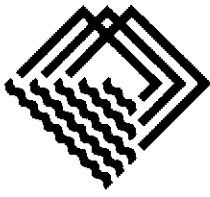
All site groundwater monitoring wells were sampled by PACIFIC for the first quarter 1992 groundwater monitoring event on March 17 and 18, 1992. A report documenting the first quarter 1992 monitoring results and treatment system performance will be issued to ARCO during the week of April 27, 1992.

Sincerely,

Pacific Environmental Group, Inc.

Kelly C. Brown
Senior Staff Geologist

cc: Mr. Chris Winsor, ARCO Products Company
Ms. Pamela Evans, Alameda County Health Care Services



PACIFIC
ENVIRONMENTAL
GROUP INC.

92-172-0-10-1-88

April 8, 1992
Project 330-03.05

Mr. Mike Whelan
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of March 1992 and site activities anticipated for the month of April 1992.

STATUS OF MARCH 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.
- o Issued off-site domestic wells sampling letter to Alameda County Environmental Health Department on March 13, 1992.
- o Sampled site wells for quarterly monitoring program.

ANTICIPATED WORK TO BE PERFORMED IN APRIL 1992:

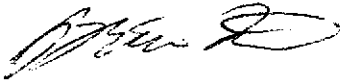
- o Continue monitoring groundwater treatment system performance.
- o Prepare and issue first quarter 1992 groundwater monitoring and remedial system evaluation report.

April 8, 1992
Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Brian Frus
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: **Chris Winsor, ARCO Products Company**
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
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REPORT DATE M 3 D 30 Y 92	CASE # 22657	SIGNED <i>Garneta J. Evans</i>	DATE
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REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Bernetta Wess	PHONE (415) 571-2434	SIGNATURE <i>Bernetta Wess</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ARCO Products Co.	

ADDRESS
P.O. Box 5811 San Mateo, CA 94402

RESPONSIBLE PARTY	NAME ARCO Products Co.	CONTACT PERSON Chuck Carmel	PHONE (415) 571-2434
	ADDRESS P.O. Box 5811 (attn: Chuck Carmel) San Mateo, CA 94402		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) Fac. #608	OPERATOR Jaime & Leonora Abad	PHONE (510) 278-2977
	ADDRESS 17601 Hesperian Blvd. San Lorenzo (Alameda) 94580		
	CROSS STREET @Hacienda		

IMPLEMENTING AGENCIES	LOCAL AGENCY County of Alameda	CONTACT PERSON Ed Howell	PHONE (510) 271-4000
	REGIONAL BOARD RWQCB- S.F. Bay Region	Richard Hiatt	PHONE (510) 464-1000

SUBSTANCES INVOLVED	(1) Gasoline	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)	<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED M 0 D 31 Y 92	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER oil/water separator
	DATE DISCHARGE BEGAN M M D D Y Y <input type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Closed oil/water separator
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE M 0 D 31 Y 92	

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER
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CASE TYPE
CHECK ONE ONLY
 UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
 NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION
 LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS
 REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
 EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT)
 CAP SITE (CD) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)
 CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SOIL (VS)
 VACUUM EXTRACT (VE) OTHER (OT)

COMMENTS
Soil samples were taken during closer of oil/water separator. Contaminated soil excavated, oil/water separator closed, site assessment to be performed. This report was sent out on 3/23/92 to the city of San Leandro fire dept. by mistake San Leandro fire dept. called...

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.5, a government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the facility. At a minimum, you must provide the following information:

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances are involved, enter the two of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

Leak Being Confirmed - Leak suspected at site, but has not been confirmed.

Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.

Preliminary Site Assessment Underway - implementation of workplan.

Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.

Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.

Cleanup Underway - implementation of remediation plan.

Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.

Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY.

REMEDIAL ACTION

Indicate which actions have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.

Containment Barrier - install vertical dike to block horizontal movement of contaminant.

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water table.

Pump and Treat Groundwater - generally employed to remove dissolved contaminants.

Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties.

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

Vacuum Extract - use pumps or blowers to draw air through soil.

Vent Soil - bore holes in soil to allow volatilization of contaminants.

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. Local Health Officer and County Board of Supervisors or their designees to receive Proposition 65 notifications.
5. Owner/responsible party.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. <i>Amberly Adams</i> 4/2/92 SIGNED: _____ DATE: _____
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REPORT DATE 03/20/92	CASE #
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REPORTED BY NAME OF INDIVIDUAL FILING REPORT <i>Brian Thomas</i>	PHONE <i>510 283 7077</i>	SIGNATURE <i>Brian Thomas</i>
REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME <i>ARCO Products Company</i>	

ADDRESS <i>2000 Alameda Street Delas Pulgas</i>	CITY <i>San Mateo</i>	STATE <i>CA</i>	ZIP <i>94403</i>
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RESPONSIBLE PARTY NAME <input checked="" type="checkbox"/> UNKNOWN	CONTACT PERSON	PHONE ()
ADDRESS		

SITE LOCATION FACILITY NAME (IF APPLICABLE) <i>ARCO Facility 601</i>	OPERATOR <i>Salma + Blanca Abadant</i>	PHONE <i>510 278-1777</i>
ADDRESS <i>17601 Hesperian Blvd.</i>	CITY <i>San Lorenzo</i>	COUNTY <i>Alameda</i>
CROSS STREET <i>Hacienda</i>	CITY	ZIP <i>94520</i>

IMPLEMENTING AGENCIES LOCAL AGENCY <i>Alameda County Health Services</i>	AGENCY NAME	CONTACT PERSON	PHONE ()
REGIONAL BOARD <i>San Francisco Bay Region RWQCB</i>			PHONE ()

SUBSTANCES INVOLVED (1) <i>Fuel Hydrocarbons (Gasoline)</i>	NAME	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
(2)		<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT DATE DISCOVERED <i>03/18/92</i>	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER <i>Hand dug soil below</i>	<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER	
HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE		

SOURCE CAUSE(S) <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER
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CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY

REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT)

COMMENTS
Hand dugger to collect soil samples below a oil water sample. Soil was clean, groundwater encountered at about 3.5 feet below sample had hydrocarbon odor and ash. The sample was not the source.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO		*HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE M 3 D 20 Y 12		CASE #		SIGNED: _____ DATE: _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Brent Thomas		PHONE (510) 237-77		SIGNATURE Brent Thomas	
	REPRESENTING: <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME ARCO Products Company			
	ADDRESS 11001 Hospital Blvd. City: Hercules State: OH ZIP: 44133					
RESPONSIBLE PARTY	NAME <input checked="" type="checkbox"/> UNKNOWN		CONTACT PERSON		PHONE ()	
	ADDRESS					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Facility 601		OPERATOR Vincent Robert H. DeLeon		PHONE (513) 271-1177	
	ADDRESS 17001 Hospital Blvd. City: Hercules County: Hamilton ZIP: 456		CROSS STREET Hamilton			
	STREET CITY STATE ZIP					
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Hamilton County Health Services		CONTACT PERSON		PHONE ()	
	REGIONAL BOARD KLR/CB		CONTACT PERSON		PHONE ()	
SUBSTANCES INVOLVED	(1) NAME Fuel Hydrocarbons (gasoline)		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		() UNKNOWN	
	(2)		() UNKNOWN			
DISCOVERY/ABATEMENT	DATE DISCOVERED M 3 D 20 Y 12		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER		<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS	
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER			
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE		SOURCE OF DISCHARGE CAUSE(S)			
SOURCE CAUSE	<input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN		<input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL		<input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN		<input type="checkbox"/> OTHER			
CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)		<input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT)		<input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS)	
	<input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS)		<input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)			
COMMENTS	_____					

INSTRUCTIONS

EMERGENCY

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LOCAL AGENCY ONLY

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REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the tank facility. At a minimum, you must provide the facility name and address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances were spilled, list the one of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

Leak Being Confirmed - Leak suspected at site, but has not been confirmed.

Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.

Preliminary Site Assessment Underway - implementation of workplan.

Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.

Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.

Cleanup Underway - implementation of remediation plan.

Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.

Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

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REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.

Containment Barrier - install vertical dike to block horizontal movement of contaminant.

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water table.

Pump and Treat Groundwater - generally employed to remove dissolved contaminants.

Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties.

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

Vacuum Extract - use pumps or blowers to draw air through soil.

Vent Soil - bore holes in soil to allow volatilization of contaminants.

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
5. Owner/responsible party.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 03/09/92		CASE # 22657		SIGNED: _____ DATE: _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Bernetta Hess		PHONE (415) 571-2434		SIGNATURE _____	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME ARCO Products Co.			
	ADDRESS P.O. Box 5811 San Mateo, CA 94402					
RESPONSIBLE PARTY	NAME ARCO Products Co.		CONTACT PERSON Chuck Carmel		PHONE (415) 571-2434	
	ADDRESS P.O. Box 5811 (attn: Chuck Carmel) San Mateo, CA 94402					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Fac. #608		OPERATOR Jaime & Leonora Abad		PHONE (510) 278-2977	
	ADDRESS 17601 Hesperian Blvd. San Lorenzo (Alameda) 94580					
	CROSS STREET @Hacienda					
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME County of Alameda		CONTACT PERSON Ed Howell		PHONE (510) 271-4520	
	REGIONAL BOARD RMQCB- S.F. Bay Region		CONTACT PERSON Richard Hiatt		PHONE (510) 464-1000	
SUBSTANCES INVOLVED	(1) NAME Gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN			
	(2) NAME _____		QUANTITY LOST (GALLONS) <input type="checkbox"/> UNKNOWN			
DISCOVERY/ABATEMENT	DATE DISCOVERED 03/09/92		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER oil/water separator			
	DATE DISCHARGE BEGAN _____		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Closed oil/water separator			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 03/09/92					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input checked="" type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)					
COMMENTS	Soil samples were taken during close of oil/water separator.					
	Non-hazardous soil excavated, oil/water separator closed, site assessment to be performed. This report was sent on 3/23/92 to the city of San Lorenzo.					

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, Hazardous Materials Incident Report should be filed with the State Office of Emergency Services (SES) at 1800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date this report is prepared.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.5, a government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the facility. At a minimum, you must provide the facility name and address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

- Leak Being Confirmed - Leak suspected at site, but has not been confirmed.
- Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.
- Preliminary Site Assessment Underway - implementation of workplan.
- Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.
- Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.
- Cleanup Underway - implementation of remediation plan.
- Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.
- Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION

Indicate which actions have been used to cleanup or remediate the leak. Descriptions of options follow:

- Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
- Containment Barrier - install vertical dike to block horizontal movement of contaminant.
- Excavate and Dispose - remove contaminated soil and dispose in approved site.
- Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
- Remove Free Product - remove floating product from water table.
- Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
- Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.
- Replace Supply - provide alternative water supply to affected parties.
- Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
- Vacuum Extract - use pumps or blowers to draw air through soil.
- Vent Soil - bore holes in soil to allow volatilization of contaminants.
- No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

- Original - Local Tank Permitting Agency
- State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94242-2120
- Regional Water Quality Control Board
- Local Health Officer and County Board of Supervisors or their designees to receive Proposition 65 notifications.
- Owner/responsible party.

EMERGENCY - 24 HOURS

REGIONAL WATER QUALITY CONTROL BOARD

Vertical text and markings on the right side of the page, including "EMERGENCY - 24 HOURS" and "REGIONAL WATER QUALITY CONTROL BOARD".

ARCO Products Company
2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400



92 APR - 6 PM 11:16

March 30, 1992

COUNTY OF ALAMEDA
HAZARDOUS MATERIALS DIV.
Attn: Ed Howell
80 Swan Way, Room 200
Oakland, CA 94621

**SUBJECT: ARCO Facility # 608
17601 Hesperian Blvd.
San Lorenzo, CA 94580**

Enclosed is an Underground Storage Tank Unauthorized Release
(Leak) / Contamination Site Report for the above ARCO facility. Please distribute
the report as noted in the instructions.

Should you have any questions or comments regarding this matter, please do not
hesitate to call me at (415) 571-2434.

Sincerely,

Bernetta Wess

Bernetta Wess
Environmental Administrative Assistant

Enc.

RECEIVED

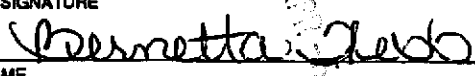
APR 02 1992

Environmental Health & Safety

cc: ~~Sharon Douglas~~, ARCO Products Company

*Note:
This was sent to Bob Kealy for
fire dept. which it should have
gone to County of Alameda.*

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 03/30/92		CASE # 22657		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Bernetta Wess		PHONE (415) 571-2434		SIGNATURE 
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME ARCO Products Co.		
	ADDRESS P.O. Box 5811 San Mateo, CA 94402				
RESPONSIBLE PARTY	NAME ARCO Products Co.		CONTACT PERSON Chuck Carmel		PHONE 415 571-2434
	ADDRESS P.O. Box 5811 (attn: Chuck Carmel) San Mateo, CA 94402				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Fac. #608		OPERATOR Jaime & Leonora Abad		PHONE (510) 278-2977
	ADDRESS 17601 Hesperian Blvd. San Lorenzo (Alameda) 94580				
	CROSS STREET @Hacienda				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME County of Alameda		CONTACT PERSON Ed Howell		PHONE (510) 271-4320
	REGIONAL BOARD RWQCB- S.F. Bay Region		CONTACT PERSON Richard Hiatt		PHONE (510) 464-1255
SUBSTANCES INVOLVED	(1) NAME Gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2)		<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 03/19/92		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER oil/water separator remove		
	DATE DISCHARGE BEGAN <input type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER closed oil/water separator		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 03/19/92				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input checked="" type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT)				
COMMENTS	Soil samples were taken during closer of oil/water separator. Contaminated soil excavated, oil/water separator closed, site assessment to be performed. This report was sent out on 3/23/92 to the city of san leandro fire dept. by mistake San Leandro fire dept. called 3/27/92.				



PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 MAR 18 11:12

March 10, 1992
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of February 1992 and site activities anticipated for the month of March 1992.

STATUS OF FEBRUARY 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.
- o Prepared and issued fourth quarter 1991 groundwater monitoring report on February 13, 1992.
- o Prepared and issued risk assessment calculations.

ANTICIPATED WORK TO BE PERFORMED IN MARCH 1992:

- o Continue monitoring groundwater treatment system performance.
- o Sample site wells for quarterly monitoring program.
- o Prepare off-site domestic irrigation well sampling results.

March 10, 1992

Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Brian Frus
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

February 19, 1992
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of January 1992 and site activities anticipated for the month of February 1992.

STATUS OF JANUARY 1992 ACTIVITIES:

- o Continued monitoring of groundwater treatment system performance.

ANTICIPATED WORK TO BE PERFORMED IN FEBRUARY 1992:

- o Continue monitoring groundwater treatment system performance.
- o Prepare and issue fourth quarter 1991 groundwater monitoring report.
- o Prepare and issue risk assessment calculations and off-site domestic irrigation well sampling results.

92 FEB 19 11 21 AM

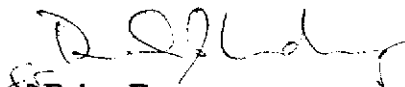
February 19, 1992

Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Brian Frus
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: **Chris Winsor, ARCO Products Company**
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

January 14, 1992

92 JAN 15 PM 2:17

Mr. Edgar Howell
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

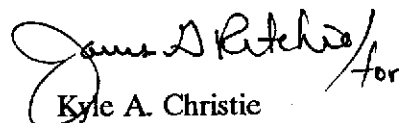
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1991; also included are projected site activities for the first quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on April 15, 1992. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,


for
Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs



PACIFIC
ENVIRONMENTAL
GROUP, INC.

January 13, 1992
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of December 1991 and site activities anticipated for the month of January 1992.

STATUS OF DECEMBER 1991 ACTIVITIES:

- o Issued site assessment report on December 16, 1991.
- o Sampled site wells for quarterly groundwater monitoring program on December 20, 1991.

ANTICIPATED WORK TO BE PERFORMED IN JANUARY 1992:

- o Continue monitoring groundwater treatment system performance.
- o Prepare and issue fourth quarter 1991 groundwater monitoring report.
- o Prepare and issue risk assessment calculations and off-site domestic irrigation well sampling results.

92 JAN 22 11:12:46

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



Brian Frus
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

UST LEAK SITE UPDATE	Date of Last Review/Update <u>September 30, 1991</u>	Current Date <u>January 2, 1992</u>
SITE IDENTIFICATION		
Name	<u>ARCO Products Company #608</u>	Case No. _____
Address	<u>17601</u> <small>Street Number</small>	<u>Hesperian Boulevard at Hacienda</u> <small>Street</small>
	<u>San Lorenzo</u> <small>City</small>	<u>94580</u> <small>ZIP Code</small>
County	<u>Alameda</u>	Substance <u>Gasoline</u>
Local Agency	<u>Alameda Co. - Environmental Health Department</u>	
Regional Board	<u>S.F. Bay Region</u>	
LEAD STAFF PERSON	<u>PAM EVANS</u>	
CASE TYPE		
<input type="checkbox"/>	Undetermined	<input type="checkbox"/>
<input type="checkbox"/>	Soil Only	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Groundwater	<input type="checkbox"/>
<input type="checkbox"/>	Drinking Water	
STATUS (Date indicates when case moved into status)		
<input type="checkbox"/>	No Action Taken	Date _____
<input checked="" type="checkbox"/>	Leak Being Confirmed	Date <u>11/85</u>
<input checked="" type="checkbox"/>	Preliminary Site Assessment Workplan Submitted	Date <u>10/04/89</u>
<input checked="" type="checkbox"/>	Preliminary Site Assessment Underway	Date <u>1985</u>
<input checked="" type="checkbox"/>	Pollution Characterization	Date <u>in Progress</u>
<input checked="" type="checkbox"/>	Remediation Plan	Date <u>1988</u>
<input checked="" type="checkbox"/>	Remedial Action Underway	Date <u>1988</u>
<input type="checkbox"/>	Post Remedial Action Monitoring	Date _____
<input type="checkbox"/>	Case Referred to Regional Board	Date _____
<input type="checkbox"/>	Case Referred to Department of Health Services	Date _____
<input type="checkbox"/>	Case Closed	Date _____
REMEDIAL ACTIONS	<u>Groundwater remediation is in progress.</u>	
COMMENTS:		
<i>Last Quarter Activities:</i> Researched property owner names and addresses for investigation of undocumented wells in site area. Prepared and submitted a progress letter on August 15, 1991 documenting the results of the June 1991 groundwater investigation. Initiated encroachment for additional off-site groundwater monitoring wells. Construction of groundwater treatment system. Performed quarterly monitoring and reporting.		
<i>Current Quarter Activities:</i> Sampled private wells in site area. Installed and reported on additional off-site well installation. Performed quarterly monitoring and reporting. Startup of groundwater remediation system.		
<i>Next Quarter Activities:</i> Perform quarterly reporting. Monitor groundwater remediation system.		
Reports documenting the site's history are listed on page 2.		

Table 1
**Site Document Reports for
 ARCO Products Company Station 608**

Report	Date	Consultant
Site Assessment	11/85	Emcon Associates
Site Assessment	03/88	Applied Geosystems
Work Plan (Includes 1988 tank removal and 1989 soil gas survey results)	10/4/89	Pacific Environmental Group, Inc.
Aquifer Test	04/13/90	Pacific Environmental Group, Inc.
Soil and Groundwater Assessment	01/02/91	Pacific Environmental Group, Inc.
Work Plan	02/13/91	Pacific Environmental Group, Inc.
Site Status Letter	06/12/91	Pacific Environmental Group, Inc.
Progress Letter	08/15/91	Pacific Environmental Group, Inc.
Site Assessment Report	12/16/91	Pacific Environmental Group, Inc.
<p>Quarterly groundwater monitoring has been conducted since March 1989.</p>		

** TX CONFIRMATION REPORT **

AS OF JAN 2 '92 9:36 PAGE.01

ALCO HAZMAT

DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	STATUS
01	1/ 2 09:35	415 569 0505	G3--SR	00"52	01/00	INC 403

** TX CONFIRMATION REPORT **

AS OF JAN 2 '92 11:10 PAGE.01

ALCO HAZMAT

DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	STATUS
01	1/ 2 11:09	415 569 0505	G3--S	01"32	03	OK

** TX CONFIRMATION REPORT **

AS OF JAN 2 '92 14:42 PAGE.01

ALCO HAZMAT

DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	STATUS
01	1/ 2 14:40	415 569 0505	G3--SR	01"51	03/00	INC 403

** TX CONFIRMATION REPORT **

AS OF JAN 2 '92 14:05 PAGE.01

ALCO HAZMAT

DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	STATUS
01	1/ 2 14:04	415 569 0505	G3--SR	00"51	01/00	INC 403

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

FACSIMILE TRANSMITTAL

TO:

569-0505

Fax Phone Number

Floor/Room # _____

Name:

Mark Thompson

Title/Section

Agency:

D.A.

Address: _____

Phone #: () _____

FROM:

568-3706

Fax Phone Number

Floor/Room # _____

Date:

1-2-92

Time Sent: _____

Sender:

Don Reich

Title/Section

Phone #: () _____

Number of Pages Including Transmittal Sheet: 3

Special Instructions/Comments:

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

December 31, 1991

Arco Petroleum
17601 Hesperian Blvd.
San Lorenzo CA 94580
Attn: Jaime Abadam

RE: FIVE YEAR UNDERGROUND STORAGE TANK OPERATING PERMIT
Arco Station #00608, 17601 Hesperian Blvd., San Lorenzo

Dear Mr. Abadam:

Please find enclosed a five year permit to operate three single walled underground storage tanks with single walled pressure piping and a single walled waste oil tank with single walled gravity piping at the subject facility. To operate under a valid permit, you are required to comply with the conditions as described in the revised Title 23, California Code of Regulations (CCR) adopted effective August 9, 1991. The conditions are summarized below:

- 1) The owner or operator shall comply with the reporting and recording requirements for unauthorized releases, specified in Article 5.
- 2) Written records of all monitoring and maintenance performed shall be maintained for a period of at least three (3) years. These records must be made available, upon request within 36 hours, to a representative of this office.
- 3) An operating permit may be transferred to a new underground storage tank owner if all of the following are met: the new owner does not change any conditions of the permit; the transfer is registered with this office within 30 days of the change in ownership; and the tank permit application forms are completed to show the changes. Upon receiving the ownership transfer request this office may review, modify, or terminate the permit to operate the underground storage tank(s).

Title 23 specifies that non-visual monitoring/quantitative release detection be performed. The following methods may be utilized:

- a) SINGLE WALLED UNDERGROUND STORAGE TANKS,
Section 2643 (c)(2)(A&B);
 - annual tank integrity test, AND
 - monthly inventory reconciliation

- b) PRESSURIZED PIPING, Section 2643(d);
 - hourly automatic line leak detector, AND
 - annual line tightness test

You may utilize other release detection methods for tanks and piping as outlined in Appendix IV of Title 23, CCR. Enclosed is a copy of Appendix IV for your reference. You are required to send written notification to this office regarding any changes in the current monitoring methods.

Inventory reconciliation is an integral part of the non-visual monitoring/quantitative release detection method. The following summary is taken from Title 23, Section 2646.

- a) The daily variation in inventory reconciliation shall be the difference between the physically measured inventory in storage and the calculated inventory in storage. Daily variations shall be summed for a period of one month. Monthly variations exceeding a variation of 1% of the monthly tank delivery plus 130 gallons must be investigated in accordance with this section. Please find enclosed a sample worksheet to perform inventory reconciliation.

- b) You are required to submit on an ANNUAL basis, a statement to this office which states that all inventory reconciliation data are within allowable variations or, submit a list of the days and corresponding variations which exceeded the allowable variations. Said statement shall be executed under penalty of perjury.

Please note that after January 1, 1993, inventory reconciliation, and any other leak detection method that utilizes manual stick readings, shall NOT be used as part of non-visual monitoring for existing underground storage tanks, where the ground water level or the highest anticipated ground water level is less than 20 feet below the bottom of the tank. If this applies to tanks you operate then you are required to then select another release ARCO

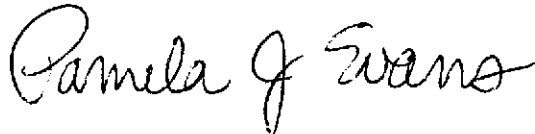
Station 0608
December 31, 1991
Page 2 of 3

detection method(s) for tanks and piping as out-lined in Appendix IV.

Consult the revised Title 23, CCR for additional requirements. To obtain a copy of the amended regulations, you may contact the State Water Resources Control Board at (916) 657-0917.

You may contact me with any questions at (510) 271-4320.

Sincerely,



Pamela J. Evans
Hazardous Materials Specialist

c: Susan Hugo, ACHCSA
S. L. Douglas, ARCO
James Ferdinand, Eden Consolidated Fire Protection District

Enclosures

ARCO PRODUCTS COMPANY
 FACILITY LIST - LOS ANGELES REGION
 BY STATE COUNTY
 10/24/1991, 09:20 AM

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE	ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA 94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA 94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA 94550	3RD ST/S LIVERMORE A	415-449-1448
00608	JAIME & LEONORA ABADAM <i>Sgn. ✓</i> JERRY SHIELDS	17601 HESPERIAN BLVD 899 RINCON AVENUE	SAN LORENZO LIVERMORE	CA 94580 CA 94550	HACIENDA/HESPERIAN B PINE/RINCON AVE	415-278-2977 415-447-1329
02035	RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU	ALBANY	CA 94706	MARIN/SAN PABLO AVE	415-525-1362
02107	PRITINDER ARORA	3310 PARK BLVD.	OAKLAND	CA 94610	MACARTHUR/PARK BLVD	415-532-1716
02112	JAVAD ROOSHAN <i>Sgn. ✓</i>	1260 PARK STREET	ALAMEDA	CA 94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA 94546	GROVE/CENTER ST	415-581-1268
02169	RAMESH SOOD	889 W GRAND AVE	OAKLAND	CA 94607	MARKET/W GRAND AVE	415-465-4450
02185	B J A INC	9800 E 14TH ST	OAKLAND	CA 94603	98TH/E 14TH	415-568-0590
04494	KHALIL H ROOSHAN <i>Sgn. ✓</i>	566 HEGENBERGER RD.	OAKLAND	CA 94605	EDES/HEGENBERGER RD	415-569-7561
04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD	OAKLAND	CA 94611	WEST/W MACARTHUR BLV	415-658-5000
04977	MICHAEL SEROY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	HISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL <i>Sgn. ✓</i>	6235 SEMINARY AVENUE	OAKLAND	CA 94605	HWY 580/SEMINARY	415-633-1042
06041	RONALD E TEUTSCH	7249 VILLAGE PARKWAY	DUBLIN	CA 94566	AMADOR/VILLAGE PKWY	415-828-3163
06113	PRESTIGE STATIONS INC 5158	785 E STANLEY BLVD	LIVERMORE	CA 94550	MURRIETTA/E STANLEY	415-449-2024
06148	JIN H KANG	5131 SHATTUCK AVE.	OAKLAND	CA 94609	52ND/SHATTUCK	415-654-3461

ARCO Products Company
Monitoring and Response Plans

County Mamuda - Public Health

Facility	Product Tanks		Product Lines		ELECTRONIC Tank Monitor	Probe in Sump	LINE Leak Detector	Used Oil Tank		Monitoring Plan
	DW	SW	DW	SW				DW	SW	
500 MacArthur Blvd. Oak	PS 216	✓		✓	✓	✓	✓			I
570 Telegraph Ave. Oakland	SH 314	✓		✓	✓	✓	✓			I
86 S. Livermore Ave.	SH 418	✓					✓			IVA
17601 Hesperian Blvd. S.F.	PE 1008 5yr	✓		✓	✓	✓	✓	✓		IA
399 Rincon Ave. Liv.	SH 771		✓				✓			III
801 San Pablo, Albany	LS 2035	✓		✓	✓	✓	✓			I
310 Park Blvd. Oak	PS 2107	✓		✓	✓	✓	✓			II B
560 Davis St. S.F.	2111		✓		✓		✓		✓	III, V
260 PARK ST. ALBANY	SH 2117 5yr	✓		✓	✓	✓	✓			I
2441 Center St. C.V.	SS 2152	✓		✓	✓	✓	✓			I
19 W. GRAND AVE. OAK	PB 2169		✓		✓		✓			III
800 E. 14th St. Oakland	BC 2185		✓		✓		✓			III
26 Hesperian Blvd. Oak	BC 4494 5yr		✓		✓		✓			III
310 Park Oakland	SH 4931		✓		✓		✓			III
17700 Cedar Valley Blvd.	SS 4977		✓		✓		✓			III
235 Seminary Blvd. Oak	PS 6002 5yr	✓		✓	✓		✓			III
249 Village Parkway Dublin	RA 6041		✓		✓		✓			III
185 E. Stanley Liv.	SH 6113	✓		✓			✓			IVA
5131 Shattuck Ave. Oak	SH 6148		✓		✓		✓			III

SH-7 PB-1
 ✓ PS-2 BC-2
 ✓ LS-1 RA-1
 PE-7 SS-2

* # 560 Hesperian Rd - approved closure & installation plan
 site contaminated.

5y permit Remediation

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

December 23, 1991

Chuck Carmel
ARCO Petroleum Products Co.
P.O. Box 5811
San Mateo CA 94402

RE: ARCO Service Station 0608, 17601 Hesperian Blvd., San Lorenzo

Dear Mr. Carmel:

Thank you for your quick response to my request for updated information on the above referenced site. As we have been unable to reach one another by telephone for follow up, I am writing to request the following additional information:

1. Analytical results of your domestic well sampling activities by January 23, 1991.
2. ARCO's plan for future groundwater monitoring. Please specify which of the many onsite and offsite wells you plan to monitor during the course of your groundwater remediation activities. Also, please indicate your monitoring frequency and duration.

You may contact me with any questions at (415)271-4320.

Sincerely,

Pamela J. Evans
Hazardous Materials Specialist

c: Mark Thomson, Alameda County District Attorney's Office
Eddy So, Regional Water Quality Control Board
Tina Berry, PEG, Inc.

ARCO Products Company

2000 Alameda de las Pulgas

Mailing Address: Box 5811

San Mateo, California 94402

Telephone 415 571 2400



91 DEC 17 AM 10:11

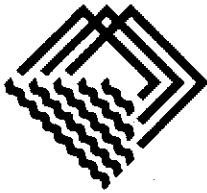
Date: December 16, 1991

Re: ARCO Station # 0608
17601 Hesperian Boulevard
at Hacienda Avenue
San Lorenzo, California

" I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report are true and correct."

Submitted by:

Kyle A. Christie
Environmental Engineer



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 DEC 17 10:00

December 9, 1991
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of November 1991 and site activities anticipated for the month of December 1991.

STATUS OF NOVEMBER 1991 ACTIVITIES:

- o Sampled groundwater from off-site domestic wells.

ANTICIPATED WORK TO BE PERFORMED IN DECEMBER 1991:

- o Continue monitoring groundwater treatment system performance.
- o Submit site assessment report.
- o Sample site wells for quarterly groundwater monitoring program.
- o Issue off-site domestic well sampling report.

December 9, 1991

Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

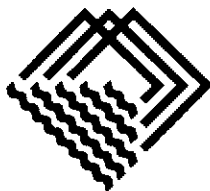


Brian Frus
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 NOV 14 11:22

November 8, 1991
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of October 1991 and site activities anticipated for the month of November 1991.

STATUS OF OCTOBER 1991 ACTIVITIES:

- o Issued a letter documenting start-up activities of the groundwater treatment system.
- o Installed six additional groundwater monitoring wells. *Different from proposal*
- o ~~Sampled the six new wells.~~

ANTICIPATED WORK TO BE PERFORMED IN NOVEMBER 1991:

- o Continue monitoring groundwater treatment system performance.

November 8, 1991

Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

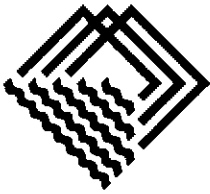


Brian Frus *for*
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 OCT 22 AM 10:48

October 21, 1991
Project 330-06.09

Mr. Chuck Carmel
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Re: ARCO Service Station 608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Carmel:

This letter is written to inform ARCO Products Company that start-up of the groundwater remediation system located at the above referenced site has been initiated. ~~The construction of the groundwater treatment system was completed on~~ **September 24, 1991.**

Start-up activities were initiated on September 25, 1991. These activities included inspection and observation by the Oro Loma Sanitary Sewer District of the groundwater system's start-up sampling. Before discharge to the sanitary sewer could begin effluent from the system had to be shown to comply with the Sanitary District's requirements. When permission to discharge treated groundwater was received from the Sanitary District on October 16, 1991 the groundwater system was activated.

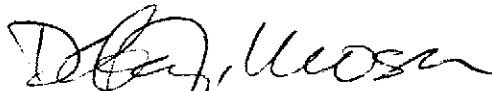
If there are further questions concerning the operation of the groundwater treatment system, please call.

Sincerely,

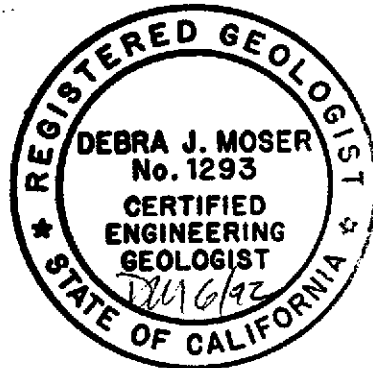
Pacific Environmental Group, Inc.



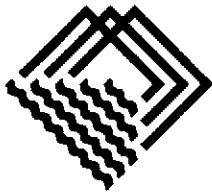
Daniel J. Landry
Project Engineer



Debra Moser
Senior Geologist
CEG 1293



cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County Department of Environmental Health
Steven Ritchie, RWQCB - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 OCT 32 11:50

October 17, 1991
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California 94402

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of September 1991 and site activities anticipated for the month of October 1991.

STATUS OF SEPTEMBER 1991 ACTIVITIES:

- o Completed construction of the groundwater treatment system.
- o Started system and sampled for discharge permit compliance.
- o Sampled site wells for quarterly groundwater monitoring program on September 24, 1991.
- o Sampled two domestic water-supply wells.

ANTICIPATED WORK TO BE PERFORMED IN OCTOBER 1991:

- o Monitor groundwater treatment system performance.
- o Installed six additional groundwater monitoring wells.
- o Sampled the six new wells.
- o Issue a detailed letter documenting start-up activities of the groundwater treatment system.

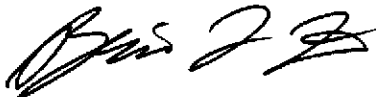
October 17, 1991

Page 2

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



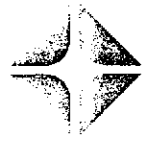
Brian Frus
Staff Engineer



Kelly C. Brown
Senior Staff Geologist

cc: **Chris Winsor, ARCO Products Company**
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

ARCO Products Company
2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400



Date: October 14, 1991

Re: ARCO Station #

" I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report are true and correct."

Submitted by:

Kyle A. Christie
Environmental Engineer

91 OCT 15 PM 2:29

October 14, 1991

Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

Attention: Mr. Edgar Howell

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:


Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1991; also included are projected site activities for the fourth quarter of 1991 and a bibliography of reports submitted for each location.

The QSRs are classified by County and by address within the County. We are submitting this document and attached QSRs as previously agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please also note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning a subsequent QSR submittal for ARCO sites on January 15, 1992. Please do not hesitate to contact me with any questions regarding this submittal.

Sincerely,


Kyle A. Christie
Environmental Engineer

Attachments:
ARCO Facility QSRs

UST LEAK SITE UPDATE	Date of Last Review/Update <u>July 15, 1991</u>	Current Date <u>September 30, 1991</u>
---------------------------------	--	---

SITE IDENTIFICATION

Name	<u>ARCO Products Company #608</u>	Case No.	_____
Address	<u>17601</u>	<u>Hesperian Boulevard at Hacienda</u>	_____
	<small>Street Number</small>	<small>Street</small>	
	<u>San Lorenzo</u>	<u>94580</u>	_____
	<small>City</small>	<small>ZIP Code</small>	
County	<u>Alameda</u>	Substance	<u>Gasoline</u>
Local Agency	<u>Alameda Co. - Environmental Health Department</u>		
Regional Board	<u>S.F. Bay Region</u>		

LEAD STAFF PERSON _____

CASE TYPE

_____ Undetermined _____ Soil Only X Groundwater _____ Drinking Water

STATUS (Date indicates when case moved into status)

_____	No Action Taken	Date	_____
<u>X</u>	Leak Being Confirmed	Date	<u>11/85</u>
<u>X</u>	Preliminary Site Assessment Workplan Submitted	Date	<u>10/04/89</u>
<u>X</u>	Preliminary Site Assessment Underway	Date	<u>1985</u>
<u>X</u>	Pollution Characterization	Date	<u>In Progress</u>
<u>X</u>	Remediation Plan	Date	<u>1988</u>
<u>X</u>	Remedial Action Underway	Date	<u>1988</u>
_____	Post Remedial Action Monitoring	Date	_____
_____	Case Referred to Regional Board	Date	_____
_____	Case Referred to Department of Health Services	Date	_____
_____	Case Closed	Date	_____

REMEDIAL ACTIONS Sanitary sewer permit obtained. Groundwater treatment system installation began August 1991. Application for NPDES permit in progress.

COMMENTS:

Last Quarter Activities: Installation of one additional on-site and four additional off-site groundwater monitoring wells. Quarterly groundwater monitoring and reporting.

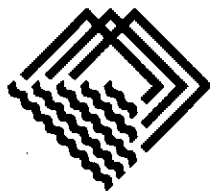
Current Quarter Activities: Researched property owner names and addresses for investigation of undocumented wells in site area. Prepared and submitted a progress letter on August 15, 1991 documenting the results of the June 1991 groundwater investigation. Initiate encroachment for additional off-site groundwater monitoring wells. Begin construction of groundwater treatment system. Perform quarterly monitoring and reporting.

Next Quarter Activities: Install additional off-site groundwater monitoring wells. Perform quarterly monitoring and reporting. Issue site assessment report in December. Monitoring groundwater treatment system.

Reports documenting the site's history are listed on page 2.

Table 1
**Site Document Reports for
 ARCO Products Company Station 608**

Report	Date	Consultant
Site Assessment	11/85	Emcon Associates
Site Assessment	03/88	Applied Geosystems
Work Plan (Includes 1988 tank removal and 1989 soil gas survey results)	10/4/89	Pacific Environmental Group, Inc.
Aquifer Test	04/13/90	Pacific Environmental Group, Inc.
Soil and Groundwater Assessment	01/02/91	Pacific Environmental Group, Inc.
Work Plan	02/13/91	Pacific Environmental Group, Inc.
Site Status Letter	06/12/91	Pacific Environmental Group, Inc.
Progress Letter	08/15/91	Pacific Environmental Group, Inc.
Quarterly groundwater monitoring has been conducted since March 1989.		



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 OCT -8 PM 1:55

September 18, 1991
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 6411
Artesia, California 90702-6411

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of August 1991 and site activities anticipated for the month of September 1991.

STATUS OF AUGUST 1991 ACTIVITIES:

- o Obtained property owner information in site area for well survey.
- o Issued site progress letter on 8/15/91.
- o Started construction of the groundwater treatment system.

ANTICIPATED WORK TO BE PERFORMED IN SEPTEMBER 1991:

- o Sample site wells for quarterly groundwater monitoring program.
- o Perform additional well survey for documented wells in the site area.
- o Complete construction of the groundwater treatment system.
- o Revised the number of proposed groundwater monitoring wells to install during the current investigation. Current proposal covers up to 8 additional wells.

September 18, 1991
Page 2

- o Initiated encroachment with Alameda County in install additional wells.

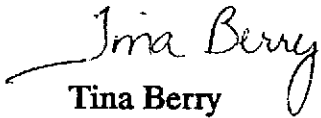
Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

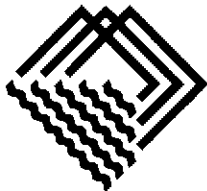


Brian Frus
Staff Engineer



Tina Berry
Senior Staff Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 SEP 17 PM 1:15

September 12, 1991
Project 330-06.13

Ms. Pamela Evans
Alameda County Environmental Health Department
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Re: ARCO Service Station 608
17601 Hesperian Blvd. at Hacienda Ave.
San Lorenzo, California

Dear Ms. Evans:

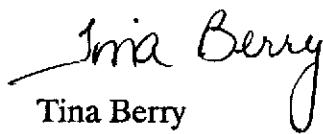
This letter supplements the August 15, 1991 progress letter issued by Pacific Environmental Group, Inc. (PACIFIC), on behalf of ARCO Products Company (ARCO), for the site referenced above. The August 15 letter proposed the installation of four groundwater monitoring wells to further characterize the downgradient extent of the hydrocarbon plume in the site area. Recent changes to the proposed investigation include the installation of up to four additional groundwater monitoring wells, **for a total of eight proposed wells to be installed during the current investigation.** The location of the proposed wells are shown on attached Figure 1.

Two proposed wells, located on Via Media Avenue, will be installed only if hydrocarbons are detected in the wells proposed on Via Flores Avenue. Six wells will be constructed during the initial round of installation. These wells will be developed and sampled on a rush basis, within 48 hours of installation, to determine if the two wells proposed on Via Media Avenue will be needed to define the hydrocarbon plume. ARCO and PACIFIC are currently working with Alameda County Public Works Department to obtain an access agreement to install the proposed wells. Drilling of the wells will commence within 2 working days after encroachment approval has been obtained.

Per our telephone conversation on September 11, this letter will serve as a modified Work Plan for the current phase of site assessment. Please be advised that a technical assessment report will be issued by December 16, 1991, per the August 15 letter, and will include a discussion of the findings of the current investigation along with boring logs, geologic cross-sections, and well installation and sampling procedures. If you have any questions regarding this letter, please call.

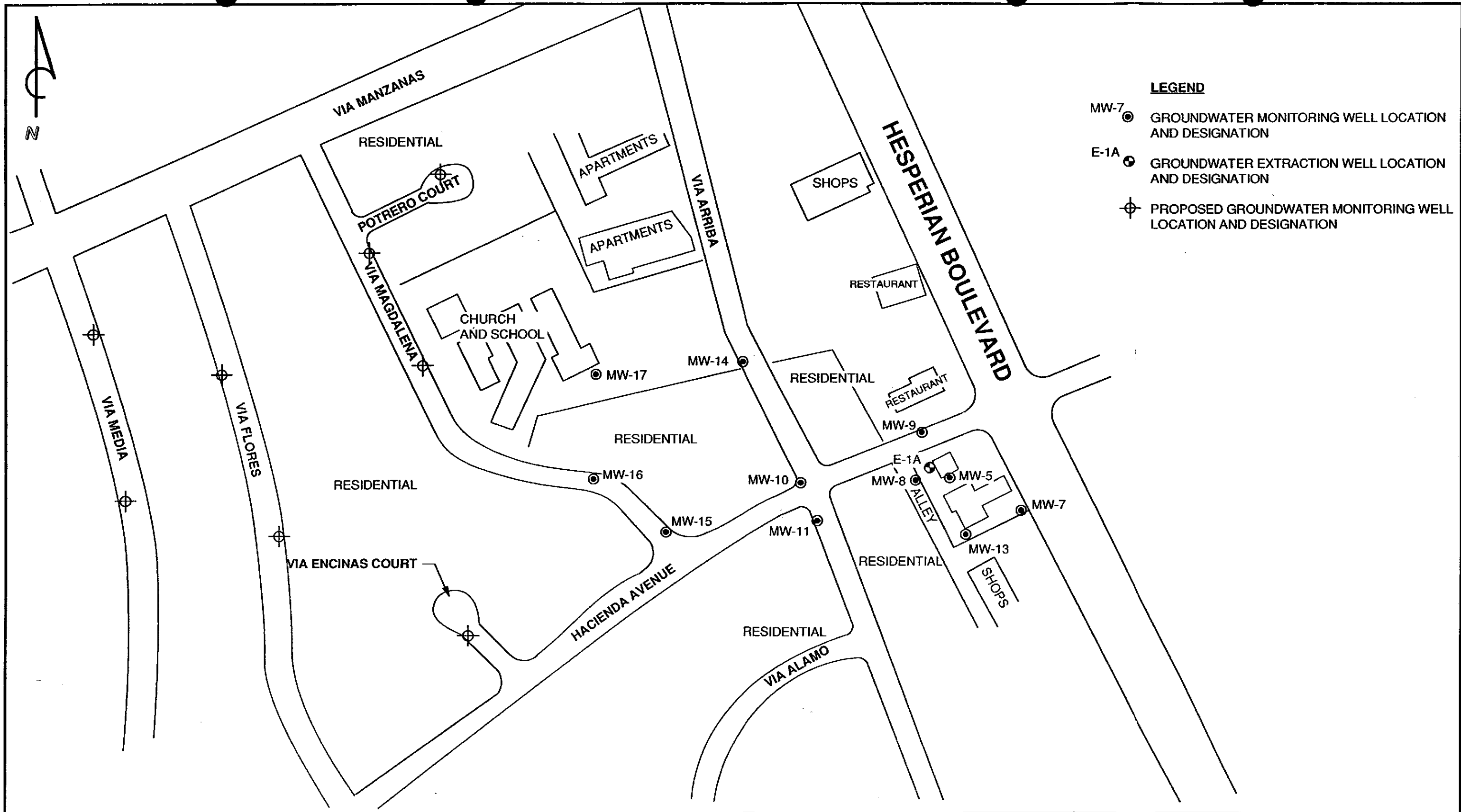
Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



Tina Berry
Staff Geologist

cc: Charles Carmel, ARCO Products Company
Chris Winsor, ARCO Products Company
Richard Hiatt, RWQCB - S.F. Bay Region



LEGEND

- MW-7 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- E-1A ● GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
- ⊕ PROPOSED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION



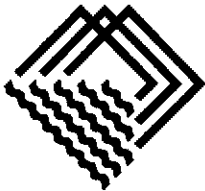
PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE: 1" = 150'

ARCO SERVICE STATION #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

PROPOSED WELL LOCATION MAP

FIGURE:
1
 PROJECT:
 330-06.13



PACIFIC
ENVIRONMENTAL
GROUP, INC.

Noted E. P. SO.

SEP 17 1991

September 12, 1991
Project 330-06.13

01

RET

Ms. Pamela Evans
Alameda County Environmental Health Department
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Re: ARCO Service Station 608
17601 Hesperian Blvd. at Hacienda Ave.
San Lorenzo, California

Dear Ms. Evans:

This letter supplements the August 15, 1991 progress letter issued by Pacific Environmental Group, Inc. (PACIFIC), on behalf of ARCO Products Company (ARCO), for the site referenced above. The August 15 letter proposed the installation of four groundwater monitoring wells to further characterize the downgradient extent of the hydrocarbon plume in the site area. Recent changes to the proposed investigation include the installation of up to four additional groundwater monitoring wells, for a total of eight proposed wells to be installed during the current investigation. The location of the proposed wells are shown on attached Figure 1.

Two proposed wells, located on Via Media Avenue, will be installed only if hydrocarbons are detected in the wells proposed on Via Flores Avenue. Six wells will be constructed during the initial round of installation. These wells will be developed and sampled on a rush basis, within 48 hours of installation, to determine if the two wells proposed on Via Media Avenue will be needed to define the hydrocarbon plume. ARCO and PACIFIC are currently working with Alameda County Public Works Department to obtain an access agreement to install the proposed wells. Drilling of the wells will commence within 2 working days after encroachment approval has been obtained.

September 12, 1991

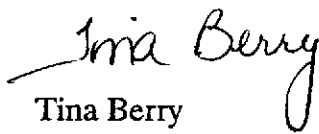
Project 330-06.13

Page 2

Per our telephone conversation on September 11, this letter will serve as a modified Work Plan for the current phase of site assessment. Please be advised that a technical assessment report will be issued by December 16, 1991, per the August 15 letter, and will include a discussion of the findings of the current investigation along with boring logs, geologic cross-sections, and well installation and sampling procedures. If you have any questions regarding this letter, please call.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



Tina Berry
Staff Geologist

cc: Charles Carmel, ARCO Products Company
Chris Winsor, ARCO Products Company
Richard Hiatt, RWQCB - S.F. Bay Region

San Joaquin Area:

RO255

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

II, III

Site ID # 779 Site Name ARCO PETROLEUM #608 Today's Date 8/15/91

Site Address 17601 Hesperian Blvd.
City San Lorenzo Zip 94580 Phone 278-2977

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments: THIS IS A FOLLOUP INSPECTION FOR 5-YEAR UST PERMIT INSPECTION (INITIAL INSPECTION CONDUCTED ON 1/27/91).

THE DEWMOR KEEPS THE FOLLOWING RECORDS

ON-SITE:

(1) WRITTEN MONITORING PLAN (ALTHOUGH WITH INSUFFICIENT INFORMATION)

(2) DAILY INVENTORY RECONCILIATION

(3) AGREEMENT BETWEEN ARCO and DEWMOR TO KEEP MONITORING RECORDS ON-SITE FOR (3) YEARS.

(4) TANKS & PIPELINE INTEGRITY RECORDS, SERVICE RECORD INCLUDING CALIBRATION OF EQUIPMENTS, ETC.

THE FOLLOWING ADDITIONAL ACTIONS NEED TO BE TAKEN IN ORDER TO COMPLY WITH TITLE 23 REGULATIONS AND RELATED HEALTH & SAFETY CODE.

(1) PROVIDE US WITH A COPY OF AN UPDATED, WRITTEN MONITORING PLAN. CURRENT COPY WHICH IS ON-FILE and AT THE SITE IS INSUFFICIENT.

DETAILS OF WHAT A WRITTEN MONITORING PLAN SHOULD CONSIST OF WILL BE INCLUDED IN A LETTER TO BE SENT OUT WITHIN A WEEK.

(2) SUBMIT A SITE-SPECIFIC WRITTEN

SPILL LEAK RESPONSE PLAN DEALING WITH UNAUTHORIZED PERSONS.

II, III

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(e)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
 - Semi-annual groundwater
 - One time soil
 - 3) Daily Vadose
 - One time soil
 - Annual tank test
 - 4) Monthly Groundwater
 - One time soil
 - 5) Daily Inventory
 - Annual tank testing
 - Cont pipe leak det
 - Vadose/groundwater mon.
 - 6) Daily Inventory
 - Annual tank testing
 - Cont pipe leak det
 - 7) Weekly Tank Gauge
 - Annual tank testing
 - 8) Annual Tank Testing
 - Daily Inventory
 - 9) Other _____

- 7. Prets Tank Test 2643
 - Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit 2711
 - Date: _____
 - 14. As Built 2635
 - Date: _____

Rev 6/88

Contact: JANE ABADIA

Title: DEALER

Signature: Jane Abadia

Inspector: MARIA ANTONETTE B. MORALES

Signature: Maria Antonette B. Morales

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # 779 Site Name ARCO Petroleum #608 Today's Date 8/15/91

Site Address 17601 Hesperian Blvd

City San Lorenzo Zip 94580 Phone 278-2977

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II Business Plans, Acute Hazardous Materials
- III. Underground Tanks

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cons > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ MAT'S

- 10. Registration Form Filed 25533(c)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|--|--|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Groundwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/groundwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| New Tanks | <input type="checkbox"/> 7. Precls Tank Test 2643 |
| | Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing 2646 |
| <input type="checkbox"/> 10. Ground Water. 2647 | |
| <input type="checkbox"/> 11. Monitor Plan 2632 | |
| <input type="checkbox"/> 12. Access. Secure 2634 | |
| <input type="checkbox"/> 13. Plans Submit 2711 | |
| Date: _____ | |
| <input type="checkbox"/> 14. As Built 2635 | |
| Date: _____ | |

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments: (3) PROVIDE OUR OFFICE WITH AS-BUILT DOCUMENTS WHICH INCLUDE THE FOLLOWING

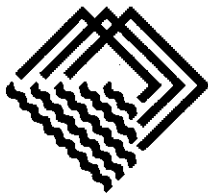
INFO: LOCATIONS OF ALL TANKS, PIPINGS, OR MATERIALS USED FOR TANK & PIPING (BRANDS), LOCATIONS & TYPE OF CONTINUOUS MONITORING EQUIPMENTS. INCLUDE PROBE & PROBE POSITIONS.

ADDED
 RAYCHEM TRACER TTGS - MULTICHANNEL ALARM SYSTEMS APPEARS TO BE IN GOOD OPERATING CONDITION AT THE TIME OF INSPECTION. RECORDS OF DAILY CHECKING ARE AVAILABLE ON-SITE AS WELL. THIS SYSTEM IS CAPABLE OF DETECTING SEPARATE PRODUCT OR WATER PRESENCE IN THE INTERSTITIAL SPACE OF TANKS. AND SUMPS.

II, III

Contact: JAMIE ABADAM
 Title: DEALER
 Signature: Jamie Abadam

Inspector: MARVA MOTILANTE & MALOZA
 Signature: Mrs. Motilante & Maloza



PACIFIC
ENVIRONMENTAL
GROUP, INC.

je

91 AUG 27 11:10:21

August 12, 1991
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of July 1991 and site activities anticipated for the month of August 1991.

STATUS OF JULY 1991 ACTIVITIES:

- o Requested extension of the technical assessment report. Site progress letter to be issued by 8/20/91.
- o Selected contractor for construction of the groundwater treatment system.

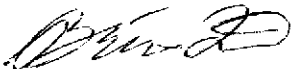
ANTICIPATED WORK TO BE PERFORMED IN AUGUST 1991:

- o Obtain property owner information in site area for well survey.
- o Issue site progress letter by 8/20/91.
- o Start construction of the groundwater treatment system.

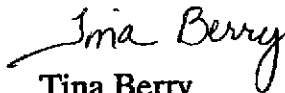
Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.



**Brian Frus
Staff Engineer**



**Tina Berry
Senior Staff Geologist**

cc: **Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region**



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 JUL 26 PM 12: 53

July 23, 1991
Project 330-03.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of June 1991 and site activities anticipated for the month of July 1991.

STATUS OF JUNE 1991 ACTIVITIES:

- o Five additional groundwater monitoring wells installed June 25 and June 26.
- o Conducted quarterly groundwater monitoring.

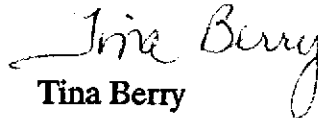
ANTICIPATED WORK TO BE PERFORMED IN JULY 1991:

- o Request extension of the technical assessment report until August 20 due to brief postponement in fieldwork related to encroachment onto school property.
- o Select contractor for construction of the groundwater treatment system.

Please call if you have any questions concerning this letter.

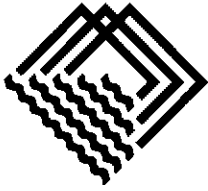
Sincerely,

Pacific Environmental Group, Inc.



Tina Berry
Senior Staff Geologist

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 JUL 24 11:59

July 23, 1991
Project 330-06.11

Ms. Pamela Evans
Alameda County Environmental Health Department
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Re: ARCO Service Station 608
17601 Hesperian Blvd. at Hacienda Ave.
San Lorenzo, California

Dear Ms. Evans:

This letter documents our telephone conversation of yesterday regarding the assessment report due August 20, 1991 for the referenced site. Preliminary results of the current investigation show that the downgradient extent of hydrocarbons in groundwater is not yet defined. As we discussed, Pacific Environmental Group, Inc., on behalf of ARCO Products Company, will submit instead a progress letter by August 20 that will transmit results of the second quarter 1991 groundwater monitoring of site wells, including groundwater quality data obtained from the new monitoring wells installed June 26. The letter will also include a proposal and schedule for additional well installation to further characterize the hydrocarbon plume northwest of the site.

A technical assessment report will be issued at a later date to document the procedures and findings of the recent investigation as well as the additional proposed investigation to be discussed in the August progress letter. The assessment report will transmit geotechnical data not included in the August progress letter (e.g., geologic cross sections, boring logs, etc.).

If you have any questions concerning this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.



Tina Berry
Senior Staff Geologist

cc: Charles Carmel, ARCO Products Company
Chris Winsor, ARCO Products Company
Richard Hiatt, RWQCB - S.F. Bay Region



PACIFIC
ENVIRONMENTAL
GROUP, INC.

July 11, 1991
Project 330-06.11

Ms. Pamela Evans
Alameda County
Environmental Health Department
80 Swan Way, Room 200
Oakland, California 94621

Re: ARCO Service Station 608
17601 Hesperian Blvd. at Hacienda Ave.
San Lorenzo, California

Dear Ms. Evans:

This letter requests an extension on the Assessment Report due July 30, 1991 for the referenced site. Installation of the off-site groundwater monitoring wells was delayed until June 25, per request of Mr. Forest Adams, Principal of the Calvary Lutheran Church and School. Mr. Adams specifically requested that the well on school property be installed after the students were discharged for summer vacation.

The site wells were sampled on June 26 by Pacific Environmental Group, Inc., on behalf of ARCO Products Company. Laboratory analytical data is just now arriving. We anticipate that an assessment report will be completed and submitted by August 20, 1991.

If you have any questions concerning this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Tina Berry
Senior Staff Geologist

cc: Charles Carmel, ARCO Products Company
Chris Winsor, ARCO Products Company
Richard Hiatt, RWQCB - S.F. Bay Region

91 JUL 12 PM 12:19

ARCO Products Company

2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400



Date: 7/11/91

Re: ARCO Station # 608

17601 Hesperian Blvd. at Hacienda Ave.
San Lorenzo, California

" I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report are true and correct."

Submitted by:

A handwritten signature in black ink, appearing to read "Kyle Christie", with a long horizontal flourish extending to the right.

**Kyle A. Christie
Environmental Engineer**

COUNTY OF ALAMEDA - BUILDING INSPECTION DEPARTMENT

399 ELMHURST ST., ROOM 141, HAYWARD, CA 94544 TELEPHONE (415) 670-4040 FAX (415) 293-0960
 24 HOUR INSPECTION REQUEST - TELEPHONE (415) 670-5434 330-06-05

- INSPECTOR'S COPY CANARY - AUDITOR'S COPY PINK - OFFICE COPY WHITE CARD - APPLICANT'S COPY

E P O M O L O CLASS NO. 36 PERMIT NO. 91-0864

NG ADDRESS 17601 Hesperian Blvd. CITY SAN LEANZO
 TEN CROSS STREETS Hacienda AND East 1st St
 ANT: OWNER CONTRACTOR HOME PHONE () WORK PHONE (415) 571-2468
 T'S NAME ARCO Products Company
 SS 2000 Alameda de los Reyes CITY San Mateo ST CA ZIP 94402
 ACTOR'S NAME Pacific Environmental Group PHONE (408) 984-6536
 SS 1601 Civic Center Drive CITY Santa Clara ST CA ZIP 95050
 TECT OR
 ER'S NAME Pacific Environmental Group PHONE (408) 984-6536 STATE CA LIC. NO. 594915
 SS 1601 Civic Center Drive CITY Santa Clara ST CA ZIP 95050

LICENSED CONTRACTOR'S DECLARATION
 I affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of the Business and Professions Code, and my license is in full force and effect.
 License Number 594915
A-General Engineering
123/91 Contractor [Signature]

OWNER BUILDER DECLARATION
 I affirm that I am exempt from the Contractor's License Law for the following reason (Sec 70315 Business and Professions Code):
 I am the owner of the property and I am doing the work myself.
 I am the owner of the property or my employees with wages as their sole compensation, will do the work, and I am not intended or offered for sale (Sec 7044, Business and Professions Code). The Contractor's License Law applies to an owner of property who builds or improves thereon, and who does such work himself or through employees, provided that such improvements are not intended or offered for sale. If however, the building is sold within one year of completion, the owner builder will have the burden of proving that he did so for the purpose of sale.
 I am the owner of the property and I am exclusively contracting with licensed contractors to construct the project (Sec 7044, Business and Professions Code). The Contractor's License Law does not apply to an owner of property who builds or improves a contract for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.
 I am exempt under Sec. _____ B. & P.C. for this reason _____

WORKERS' COMPENSATION DECLARATION
 I affirm that I have certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, and a certified copy thereof (Sec. 3800, Lab. C.).
35937 Company [Signature]
 I hereby certify that a certified copy of this declaration is hereby furnished. Expiration Date 2/24/92
123/91 Applicant [Signature]

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE
 This certificate of exemption need not be completed if the permit is for one hundred dollars (\$100) or less, or if the work is for the repair or maintenance of any structure, or if the work is for the repair or maintenance of any machinery, or if the work is for the repair or maintenance of any equipment.
 I affirm that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.
 Applicant _____

CONSTRUCTION LENDING AGENCY
 I affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).
 Lending Agency Name _____
 I have read this application and state that the above information is correct. I agree to comply with all city ordinances and state laws relating to building construction and hereby authorize representatives of this county to inspect the above-mentioned property for inspection purposes.
[Signature] Signature of Applicant's Agent

LEGAL DESCRIPTION (TICK ONE OF THE FOLLOWING)
 A. BOOK 412 PAGE 71 PARCEL 2 SUB-P. 3
 B. TRACT _____ BLOCK _____ LOT _____
 C. PARCEL MAP _____ PARCEL _____

DESCRIPTION OF WORK TO BE DONE
 (NEW) (ADDITION) (ALTERATION) (REPAIR) (MOVED) (DEMOLISH) (RENEWAL)
 A. DESCRIBE NEW BUILDING: GROSS AREA _____ EXTERIOR WALL COVERING _____
 NUMBER OF STORIES _____
 B. DESCRIBE PRESENT BUILDING: GROSS AREA _____ EXTERIOR WALL COVERING _____
 NUMBER OF STORIES _____
 C. DESCRIBE ADDITION: GROSS AREA _____ EXTERIOR WALL COVERING _____
 NUMBER OF STORIES _____
 D. IS BUILDING/ADDITION HEATED? (YES) (NO) COOLED? (YES) (NO)

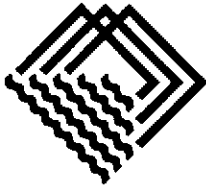
DETAILED DESCRIPTION
10) Temp Temp pad to be replaced with permanent pad
2-2) Temp Temp pad to be replaced with permanent pad

PROPOSED USE OF BUILDING Temp pad
PRESENT USE OF BUILDING Temp pad

EVALUATION (INCLUDE COST OF ALL LABOR & MATERIALS \$)
 GROUP M DIS. EXC. PERMIT NO. _____
 TYPE _____ ENCROACH PERMIT NO. _____
 SPRINKLED _____ GRADING PERMIT NO. _____
 OVER 60 CNEL _____ FLOOD HAZARD _____
 WATER _____ SEWER _____
 GAS _____ PLAN CHECK NO. _____
 SUPPLY Temp

PERMIT FEE	<u>24</u>	<u>2</u>
PERMIT PROCESS		
ADDL PROCESS		
SUB TOTAL		
S.D.A.7-1		
FLOOD CONTROL		
BAL. DUE	<u>24</u>	<u>2</u>

APPROVALS
 APPLICANT: [Signature] DATE: 4/23/91 USE ZONE: C-1
 BUILDING INSPECTION: [Signature] DATE: 4/23/91



PACIFIC
ENVIRONMENTAL
GROUP, INC.

91 JUN 17 AM 11:23

June 12, 1991
Project 330-06.05

Mr. Charles Carmel
ARCO Products Company
P. O. Box 5811
San Mateo, California

Re: Monthly Status Letter
ARCO Service Station 608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of May 1991 and site activities anticipated for the month of June 1991.

STATUS OF MAY 1991 ACTIVITIES:

- o Obtained encroachment with property owner for one off-site groundwater monitoring well. Continued pursuing encroachment with Alameda County for additional off-site wells.
- o Obtained building permit from Alameda County for the construction of the groundwater treatment system. A copy of the permit is attached.
- o Solicited bids from contractors for the construction of the groundwater treatment system.
- o Obtained a discharge permit from the Oro Loma Sanitary District in April 1991.

ANTICIPATED WORK TO BE PERFORMED IN JUNE 1991:

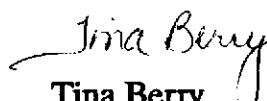
- o Additional off-site wells will be installed contingent upon finalizing encroachment with Alameda County. Encroachment anticipated to be complete by the end of June.
- o Contractor selection and initiate construction of the groundwater treatment system.
- o Quarterly groundwater monitoring.

Please call if you have any questions concerning this letter.

Sincerely,

Pacific Environmental Group, Inc.

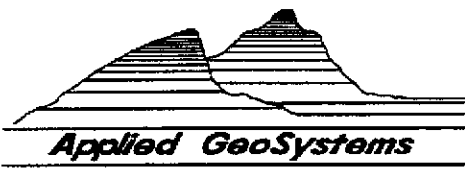

Brian Frus
Staff Engineer


Tina Berry
Staff Geologist

Attachment: Building Permit, County of Alameda

cc: Chris Winsor, ARCO Products Company
Pamela Evans, Alameda County - Environmental Health Department
Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region

Pam



TRANSMITTAL

3315 Almaden Expressway, Suite 34
San Jose, California 95118
(408) 264-7723 FAX (408) 264-2435

TO: MR. RAFAT SHAHID
COUNTY OF ALAMEDA
DEPARTMENT OF ENVIRONMENTAL HEALTH
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94621

DATE: 4/12/91
PROJECT NUMBER: AGS 19011-1
SUBJECT: FIRST QUARTER 1991
ARCO SUMMARY REPORTS

FROM: MR. GREG BARCLAY
TITLE: GENERAL MANAGER

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
 Shop drawings Prints Reports Specifications
 Letters Change Orders _____

COPIES	DATED	NO.	DESCRIPTION
1	4/12/91	19011-1	FIRST QUARTER 1991 SUMMARY REPORTS FOR VARIOUS ARCO SERVICE STATIONS IN ALAMEDA COUNTY.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files _____

REMARKS: THESE REPROTS ARE BEING FORWARDED TO YOU ON BEHALF OF MR. KYLE CHRISTIE OF ARCO PRODUCTS COMPANY.
SUMMARY REPORT FOR ARCO STATION #5369 IS ALSO INCLUDED.

91 APR 15 AM 7:10

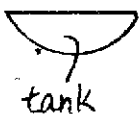
Copies: 1 to AGS project file no. 19011-1

SAN JOSE READER'S FILE

*Revision Date: 10/15/90
*File Name: TRANSMT.PRJ

ASSOCIATED ENVIRONMENTAL SYSTEMS
Technicians Legend

- A) Invoice Address: self explanatory.
B) Tank Location: self explanatory.
C) W.O.#: self explanatory
D) Technician: print full name legibly.
E) Tech.#; Van#: self explanatory.
F) Date: self explanatory.
G) Time start, end: please use military time.
H) Technician Signature: please sign full name.
I) Facility phone #: self explanatory.
J) Groundwater depth: AES will soon have a map detailing water depth in California.
K) Blue prints: self explanatory.
L) Contact: self explanatory.
M) Date, time system filled for testing : Once again use military time.
N) Cap.: Tank Capacity in gallons.
O) Prod.: Product, please use these abbreviations.
 (i.e.) REG: leaded regular
 PREM: leaded premium
 DSL: diesel
 U/L R: unleaded regular
 U/L P: unleaded premium
 W/O: waste oil
P) Tank: use P/F for pass/fail notation.
Q) Line: use P/F for pass/fail notation .
R) P/L, Product Line: use P/F for pass/Fail notation.
S) High Cal, Low Cal: please don't forget to write in if it is 1X or 2X.
T) V/R, Vapor Recovery: First note if it is Phase I or Phase II. Then use these abbreviations for the brand name.
 RJ: Red Jacket
 HY: Healey
 EW: Emco Wheaton
 B : Balance
 H : Hirt
 ETC.
U) Prod+: product added to completely fill tanks.
V) Pump: type of pump used, (i.e., suction or turbine etc)
W) Mat: Material used to construct the tanks, use these abbreviations.
 ST: steel
 F/G: fiberglass
 S/W: steel wrapped
 F/W : fiberglass wrapped
 ETC.
X) P dia: pipe diameter of fill neck and vent lines.
Y) Additional information: whatever you feel is pertinent.
Z) Layout of tank site: please use the following symbols, and neatness is always appreciated.



tank



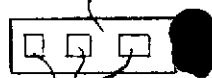
Vapor Recovery



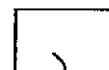
vent



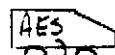
waste oil



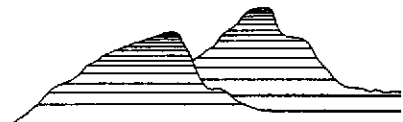
DISPENSERS



OFFICE



070
VAN



Applied GeoSystems

3315 Almaden Expressway, Suite 34, San Jose, CA 95118 (408) 264-7723

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

April 12, 1991

0412rsha

Mr. Rafat Shahid
County of Alameda
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Subject: First Quarter 1991 Summary Reports for various ARCO Service Stations located in Alameda County, California.

Mr. Shahid:

Enclosed are the Quarterly Summary Reports for various ARCO Service Stations in Alameda County, California, as listed below. We are sending you these reports on behalf of Mr. Kyle Christie of ARCO Products Company.

1260 Park Street	Alameda	Service Station 2112
1001 San Pablo Avenue	Albany	Service Station 2035
3000 Shattuck Avenue	Berkeley	Service Station 414
22141 Center Street	Castro Valley	Service Station 2152
2770 Castro Valley Road	Castro Valley	Service Station 4977
40055 Blacow Road	Fremont	Service Station 2147
35900 Fremont Boulevard	Fremont	Service Station 2158
40077 Mission Boulevard	Fremont	Service Station 6201
43500 Grimmer Boulevard	Fremont	Service Station 6206
365 Jackson Street	Hayward	Service Station 1319
899 Rincon Avenue	Livermore	Service Station 771
10600 MacArthur Blvd.	Oakland	Service Station 276
6407 Telegraph Avenue	Oakland	Service Station 374
2110 Mountain/Merced	Oakland	Service Station 623
3310 Park Boulevard	Oakland	Service Station 2107
889 West Grand Avenue	Oakland	Service Station 2169
556 Hegenberger Road	Oakland	Service Station 4494
731 W. MacArthur Blvd.	Oakland	Service Station 4931
52nd Street	Oakland	Service Station 6148



Horner Creative Metals, Inc.
Award of Certification

This is to certify that

_____ DENNIS E. GOODAN _____

has successfully completed training on the operation
of the Ezy-Chek Leak Detector

Given this 4TH. day of NOVEMBER, 19 85

Jack R. Horner

15135 Hesperian Blvd.
17601 Hesperian Blvd.

San Leandro
San Lorenzo

Service Station 2162
Service Station 608

The Regional Water Quality Control Board and ARCO Products Company have no records for the following service station:

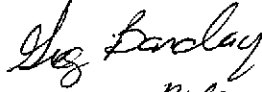
1401 Grand Avenue

San Leandro

Service Station 530

We understand that ARCO does not own the service station located at 4191 First Street in Pleasanton, California. Please call me at (408) 264-7723 if you have questions regarding the summary reports.

Sincerely,
Applied GeoSystems


Greg Barclay
Branch Manager

Enclosures: First Quarter 1991 Summary Reports

cc: Mr. Kyle Christie, ARCO Products Company

The State agrees to submit to the County a copy of the State's North Coast California Section Monthly Report.

- 3. The parties to this agreement further agree to make every effort to keep each other informed of problems, issues and progress regarding hazardous waste enforcement.

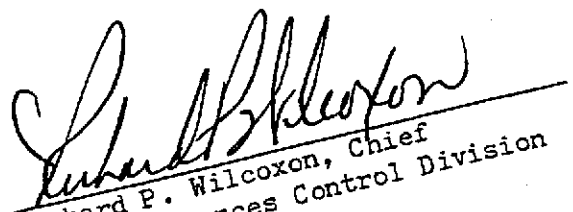
EMERGENCY ACTION

The procedures of this agreement shall not apply to situations where either party must respond to any emergency situation. However, the parties shall endeavor to communicate and coordinate their response to such emergency to the maximum extent possible.

Approved by:


 Gerald H. Winn, Director
 Alameda County Environmental Health

Date: 12-20-84


 Richard P. Wilcoxon, Chief
 Toxic Substances Control Division

Date: December 12, 1984

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# 779 Site Name ARCO # 608 Today's Date 1/22/91
 Site Address 17601 Hesperian Blvd EPA ID# _____
 City San Lorenzo Zip 94580 Phone 278-2977

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? 80gal waste oil

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 II. Business Plans, Acute Hazardous Materials
 III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

LA GENERATOR (Title 22)

	<input type="checkbox"/> 1. Waste ID	* 66471
	<input type="checkbox"/> 2. EPA ID	66472
	<input checked="" type="checkbox"/> 3. > 90 days	66508
	<input checked="" type="checkbox"/> 4. Label dates	66508
	<input checked="" type="checkbox"/> 5. Biennial	66493
Manifest	<input type="checkbox"/> 6. Records	66492
	<input type="checkbox"/> 7. Correct	66484
	<input type="checkbox"/> 8. Copy sent	66492
	<input type="checkbox"/> 9. Exception	66484
Misc.	<input type="checkbox"/> 10. Copies Rec'd	66492
	<input type="checkbox"/> 11. Treatment	66371
Prevention	<input type="checkbox"/> 12. On-site Disp. (H.S.&C.)	26189.5
	<input type="checkbox"/> 13. Ex Haz. Waste	66570
Contn. gency	<input type="checkbox"/> 14. Communications	67121
	<input type="checkbox"/> 15. Aisle Space	67124
	<input type="checkbox"/> 16. Local Authority	67126
	<input type="checkbox"/> 17. Maintenance	67120
Containers, Tanks	<input type="checkbox"/> 18. Training	67105
	<input type="checkbox"/> 19. Prepared	67140
	<input type="checkbox"/> 20. Name List	67141
	<input type="checkbox"/> 21. Copies	67141
Containers, Tanks	<input type="checkbox"/> 22. Emg. Coord. Trng.	67144
	<input type="checkbox"/> 23. Condition	67241
	<input type="checkbox"/> 24. Compatibility	67242
	<input type="checkbox"/> 25. Maintenance	67243
	<input type="checkbox"/> 26. Inspection	67244
	<input type="checkbox"/> 27. Buffer Zone	67246
	<input type="checkbox"/> 28. Tank Inspection	67259
	<input type="checkbox"/> 29. Containment	67245
	<input type="checkbox"/> 30. Safe Storage	67261
	<input type="checkbox"/> 31. Freeboard	67257

Comments:

This service station does minor repairs - Tune-ups, oil changes.

The following hazardous wastes are stored here and disposed as described below:

- Waste oil stored in ~ 30gal movable drum + drained into underground 550 gal tank. Waste is picked up ~ 2x per year - Receipts available back to 1987
- Solvent sink empty now according to manager - not being used
- Antifreeze - < 1 quart in drum in back corner
- Oily Rags - serviced by laundry - 1x/week pick up
- Oil filters - drained ~ 48 hours -> dumpster
- brake shoes + batteries - exchanged w/distributors
- oil soaked absorbent - put in dumpster
- well purgings from monitoring wells

Label above ground hazardous waste containers; Contents, responsible facility, accumulation date
Dispose of antifreeze by November, 1991

LB TRANSPORTER (Title 22)

	<input type="checkbox"/> 32. Applic./insurance	66428
	<input type="checkbox"/> 33. Comp. Cert./CHP Insp.	66448
	<input type="checkbox"/> 34. Containers	66465
Manifest	<input type="checkbox"/> 35. Vehicles	66465
	<input type="checkbox"/> 36. EPA ID #s	66531
	<input type="checkbox"/> 37. Correct	66541
	<input type="checkbox"/> 38. HW Delivery	66543
	<input type="checkbox"/> 39. Records	66544
Cont'n's	<input type="checkbox"/> 40. Name/ Covers	66545
	<input type="checkbox"/> 41. Recyclables	66800

Rev 6/88

Contact: Jaime Abadain
 Title: Manager
 Signature: Jaime Abadain

Inspector: _____
 Signature: Pamela J Evans

I have more

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

II, III

Site ID # 779 Site Name ARCO # 608 Today's Date 1/22/91

Site Address 17601 Hesperian Blvd
City San Lorenzo Zip 94580 Phone 278-2977

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

new tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stab. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. Offsite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(i)
- 18. Exemption Request? (Y/N) 25534(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|--|---|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Gndwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| | <input type="checkbox"/> 7. Precs Tank Test 2643 |
| | Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing 2646 |
| | <input type="checkbox"/> 10. Ground Water 2647 |
| New Tanks | <input checked="" type="checkbox"/> 11. Monitor Plan 2632 |
| | <input type="checkbox"/> 12. Access. Secure 2634 |
| | <input type="checkbox"/> 13. Plans Submit 2711 |
| | Date: _____ |
| <input type="checkbox"/> 14. As Built 2635 | |
| Date: _____ | |

Comments:
 this facility has 4 USTs with following capacities, contents, and characteristics:
 ① 12,000 gal, double walled fiberglass unleaded fuel tank with 2x wall fiberglass piping.
 ② 12,000 gal 2x walled fiberglass leaded fuel tank - 2x fiberglass piping
 ③ 12,000 gal, 2x wall super unleaded tank (as above)
 ④ 550 gal 2x steel waste oil tank with 1x steel gravity piping
 Monitoring system:
 Trace Tek continuous electronic monitoring for tanks, Red Jacket for fuel lines. System alarm with visual component - not clear to me how he tells if its tank or pipe leak.
 Monitoring plans in writing - manager didnot know of one on site.
 - Explanation of how pipe monitoring detection alert/ alarm works - provide explanation
 - written monitoring plan available? Provide copy
 Notify me in writing of the above two items, by Feb 5, 1991

Contact: _____
 Title: Dealer
 Signature: Jaine Cohen

Inspector: _____
 Signature: Pamela J. Evans

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

March 21, 1991

Chuck Carmel
ARCO Petroleum Products Co.
P.O. Box 5811
San Mateo CA 94402

RE: PEG Workplan for ARCO Service Station 0608
17601 Hesperian Blvd., San Lorenzo

Dear Mr. Carmel:

I have reviewed the workplan submitted by Pacific Environmental Group for the the above referenced site. The workplan and timetable are acceptable to this office. I spoke with Tina Berry today, who stated that PEG would proceed to implement the workplan.

You may contact me with any questions at (415)271-4320.

Sincerely,

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiett, Regional Water Quality Control Board
Tina Berry, PEG, Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

January 8, 1991

Mr. Kyle Christie
ARCO Petroleum Products Co.
P.O. Box 5811
San Mateo CA 94402

RE: ARCO Service Station 0608, 17601 Hesperian Blvd., San Lorenzo

Dear Mr. Christie:

In June, 1988 ARCO was required by this office to submit a remediation plan for the petroleum fuel contamination present at the above referenced site. In July, 1988 a plan was submitted on ARCO's behalf by Pacific Environmental Group, Inc. Included in the plan was a timetable for remediation activities. The extent of on and offsite contamination was to have been investigated and reported by May, 1989. A remedial action plan was to have been submitted by June, 1989, and a remediation system was to have been in operation by April, 1990. PEG's plan was reviewed and accepted by this office by July, 1988.

Since that time, onsite monitoring wells have been sampled regularly and additional on and offsite wells have been installed. PEG has replaced 3 old wells closest to the apparent source of contamination with an extraction well.

The 3rd Quarter Summary Report dated 10/15/90 establishes that groundwater contamination has moved offsite. Monitoring wells located to the north and west of the property contained levels of gasoline ranging from 63 to 12,000 ppb at the time of the June, 1990 sampling. These findings necessitate that ARCO undertake the following:

1. Further investigation in order to define the contaminant plume;
2. Diligent action to contain the plume and mitigate it's impact;
3. Evaluation of the impact to the approximately 23 wells known to exist within .5 miles of the site. These wells are listed in a report prepared by Applied GeoSystems for ARCO, dated 3/9/88.

You are required to submit to this office no later than February 15, 1990, a detailed workplan that addresses the above items and that gives a timetable for completion of your investigation and the implementation of your remediation plan. A copy should also be sent

Kyle Christie

ARCO

RE: ARCO Station 0608

January 8, 1991

Page 2 of 2

to the Regional Water Quality Control Board. Any extension beyond the February 15 due date must be agreed upon in advance and confirmed in writing. Failure to respond in a timely manner may result in referral of this case to either the RWQCB or the Alameda County District Attorney's Office for further action.

In addition, you must submit a payment of \$500 to this office in order to cover agency oversight costs. You may contact me with any questions at (415)271-4320.

Sincerely,



Pamela J. Evans

Hazardous Materials Specialist

c: Gil Jensen, Alameda County District Attorney's Office
Richard Hiett, Regional Water Quality Control Board
Howard Hatayama, Department of Health Services
Terry Gyrion, PEG, Inc.
Debra Moser, PEG, Inc.

7/24/90

Documents on File for 17601 Hesperian Blvd., San Lorenzo

11/25/85

Report to Emcon from Gettler-Ryan regarding soil and groundwater investigation was done in October, 1985. Four borings were made, A-A through A-D, and A-1 was developed into a monitoring well, later known as MW-2. Results in ppm:

SOIL

they (ARCO) knew about contamination at this time. How?

Borehole	depth	gasoline	waste oil
A-A	7-8.5'		10,000 9,500
A-B	10.5-12	1,500	
A-C	4-5.5	880	
	7-8.5	1,900	
	12.5-14	2,800	
A-D	12.5-14	590	

GROUNDWATER

A-1: gasoline - 32, B - 1, T - .69, E+X - 1.5

- 9/19/86 Emcon proposed 3 borings to 15', a 4th to 30' to be developed into a monitoring well. Copies of tank tightness tests indicate all tanks were tested and found to be "tight".
- 6/11/87 Letter asserting tanks were tested in May, 1987 and were "tight".
- 10/27/87 Letter from tank tester that the regular gasoline tank had failed a tightness test.
- 12/3/87 Memo by Larry Seto (LS) that he was informed by phone by the tester that the regular tank had failed a second test.
- 12/7/87 Letter from Rafat; we are aware of leak, ARCO must submit plan of correction by 1/7/88.
- NOTE: No leak report exists in our files *(Now it does)*
- 12/17/87 Initial Closure Plan in letter form from Applied Geosystems. Stated 4 tanks to be removed.
- 1/6/88 Addendum to Plan submitted
- 1/14/88 LS informed by phone that an additional tank would be removed.
- 1/19/88 Report by Emcon, work plan by Applied Geosystems proposing 4 borings and 1 monitoring well. Reports that soil was excavated to the top of the tank and soil samples were taken from each end of the tank from the pit sidewall. South wall - 420 ppm, north wall - ND. Report mentions Emcon's October 1985 investigation; that soil and groundwater samples were taken and contamination was present.
- over 2 years since 1st proposal*
- 2/19/88 LS met with ARCO and informed them of the need to replace removed single walled tanks with double walled tanks. He was informed of the presence of free floating product in the borehole.

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

3/9/88 Report from Applied Geosystems. Recommends new location for newly installed tanks. Mentions doing a survey of existing wells in the vicinity. Irrigation and domestic use wells are listed.

3/14/88 Letter from ARCO expressing interest in lining tanks in lieu of replacing them with double walled tanks in face of uncertainty about lease renewal. State that tank #4 (regular?) is out of service. Test results?

3/29/88 Memo to LS from tank lining company on products and services.

4/6/88 Letter from Rafat; lining of tank not acceptable, must install double walled tank

6/8/88 Letter from Robert H. Lee and Associates re: renewal of closure plans, including tank #5 (waste oil).

6/9/88 Application from Lee and Assoc. with closure "plans". There are 3 copies in file, not stamped accepted.

6/9/88 Memo from LS, date of removal, informing ARCO of need for remediation before new tanks could be installed.

6/9/88 Letter from ARCO stating tanks would be removed "within the next few days".

6/23/88 Memo from LS noting he had been informed of 3 tanks being installed without plans being submitted.

6/24/88 Letter to ARCO regarding improper installation

6/27/88 Meeting with ARCO and contractors regarding installation

6/30/88 Letter from Rafat to ARCO. Before proceeding with installation, this office requires:

1. Outline remediation plan
2. Date remediation will commence
3. Date remediation will "be implemented"

7/1/88 Received work plan from Pacific Environmental Group, Inc. (PEG). Recommend more monitoring wells, determine extent of contamination in unsaturated soils, install GW extraction pump, additional extraction pumps on and offsite, in situ soil aeration, and water treatment.* Also promised a more specific plan within 45 days. Gave specific target dates:

7/31/88 - submit remedial investigation workplan (10/5/88)

10/31/88 - if floating product found, begin "interim remedial measure for removal of . . floating product from groundwater."

12/31/88 - submit report describing onsite distribution of petroleum hydrocarbons in soil and groundwater.

5/31/89 - If offsite petroleum hydrocarbons found, (yes in 2/89) submit report of extent in groundwater

6/31/89 - submit remedial action plan with recommendation for remedial action.

3/31/90 - final remediation system operation begins

6/30/90 - submit report verifying system performance

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

7/1/88 Letter from Rafat saying plan had been received and accepted, installation work may proceed

7/5/88 ^{Tank} Installation plans accepted. These plans did not include remediation plans.

9/12/88 PEG checked MW-4, found 1/6" floating product. ^{no longer exists}

10/5/88 PEG's workplan for remediation. Proposed work included: Complete well survey, do soil gas survey, install more MWs, test aquifer for parameters of remediation. _(2 months late)

10/7/88 PEG's report of removal activities. States removal was on 6/14/88, witnessed by Mary Jo Meyers of this office and Jim Ferdinand of Eden Fire. Sampled GW and soil. Obvious contamination of soil around waste oil. Used HNu to differentiate heavily contaminated soil from others. Included lab reports showing soil and GW contamination.

NOTE: If our rep and fire rep were there, why no acceptance stamp on plans? Why no inspection report? There are soil manifests, but none for tanks.

12/22/88 PEG letter referring to 10/5/88 removal report. State intention to do vapor mapping and to submit report of findings.

3/7/89 Wells sampled. Results in ppm:
MW-3 - 150 MW-4 - 84 MW-5 - 1.3

4/15/89 Summary report from PEG to Applied Geosystems stating what activities had taken place from 1/88 to 6/88:

- 1/88 - A-1 sampled and renamed (?) MW-2 - 33 ppm
MW-3, MW-4 documented as existing on site
4 borings made, 2 became MW-1 and MW-5
- 6/88 - Removal of all tanks. Soil samples from beneath tanks showed concentrations from 7 ppm to 2800 ppm gasoline. Floating product was observed in tank pit. MW-1 + MW-2 were destroyed in process of tank removal. New tanks went into old pits. Excavated soil aerated to below 100 ppm and hauled to Kettleman.

NOTE: How was this drop in soil concentration established, and why to Kettleman Hills if below 100 ppm?

- 9/88 - floating product found in MW-4
- 2/89 - soil gas survey indicates offsite migration of hydrocarbon plume.

6/21/89 Wells sampled. Results (TPH) in ppm:
MW-3 - 63 MW-4 - 31 MW-5 - 1.1 E-1 - 1.7

7/11/89 PEG's 2nd quarter 1989 report submitted. Gives results of GW sampling done 3/7/89 (1st quarter) as 2nd quarter figures. States that no remediation work was done during 2nd quarter.

Should have implemented "water in removal measure"

by 10/31/88 as floating product was found 9/12/88

2/89 soil gas survey offsite migration

5/21/89 should have submitted a report of extent of offsite GW contamination by 5/21

(reported 11/04/89)

By 6/31/89

Should have submitted plan with recommendations for remediation steps

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

10/3/89
10/4/89

Applied Geosystems' report gives above sampling info. PEG submitted work plan for soil and GW investigation. Plan stated: 2/89 soil gas survey indicated that petroleum hydrocarbons have migrated offsite to west under Hacienda Av. and that source appears to be former storage tanks at site, also that concentrations appear to be decreasing. Propose: 6 more MWs; 1 to east for lateral and upgradient direction monitoring. 4 in downgradient direction - 1 N. on Hacienda, 2 NW at intersection of Hacienda X Via Arriba, 1 in alley due W of site. Recommend monthly sampling for 3 months after installation, then quarterly. Note attached to front of plan stating Katherine Chesick told Tina Barry with PEG to go ahead with the work.

didn't do →

10/11/89

PEG's 3rd quarter report. States no remediation activities performed during 3rd quarter and none planned for 4th quarter of 1989. Gives range of results of GW sampling on 6/21/89, promises report forthcoming during 4th quarter.

*11/14/89 - Q report 3rd
June date
12/12/89*

12/12/89

Wells sampled. MW-6 in ppm - .50. Unable to sample other wells.

1/9/90

4th Quarter, 1989 report. States: Awaiting approval from County on 10/4/89 work plan. Aquifer performance test done in November 89. Results to be in 1st quarter '90 report. Testing of MWs in December 89. Results to be in 1st quarter 90 report.

2/22/90

No remediation planned for 1st quarter of 1990 Reviewed October '89 work plan and asked for: Site safety plan, manifests for removed tanks and piping, and well purge water disposal plans.

3/13/90

PEG sent addenda as requested, however, supplied only a certificate of disposal, not manifests for tanks/piping.

3/29/89-90

Wells sampled. Report MW-1 was dry and MW-4 contained "separate phase hydrocarbons" and wasn't sampled. MW-3 - 1,100 ppm MW-6 - .13 ppm Witnessed boring at site for one of the proposed wells (in SE corner of site). Also observed some purging and sampling of existing wells.

Floating Product

*3/2/90 final Remediation
system should have
been in operation
6/28/90*

1st quarter '90 report. Included results from December '89 and March '90 sampling. Included results of soil vapor study. *what about those proposed additional MWs? should have submitted report verifying system performance*

6/13/90

4/9/90

4th Q '89 sampling report giving Dec 12, 89 well sampling data

4/13/90

1st Q '90 Summary report - No change from last Q on remediation

*7/24/90 spots within Barry
are not getting additional encouragement or guidelines for remediation from ARCO
Tina (PEG) have taken the initiative to install an extractor well at old tank pit. No extraction
see report by Tina*

1990

- Attending:
- Michael Whelan
 - Debra Moser
 - Krith Weirumiller
 - Kelly Brown
 - Chris Weidner
 - Charles Lapin
 - Juliet Stein
 - Larry Sato
 - Susan Hugo
 - Rich Hiett
 - Ravi Araventhulam

Project Overview:

(Included in RI/FSZ)
 ↑
 will be submitted in the work plan.

- Channel deposits of silty sand going off site. Upper + lower channel deposits
 20-25 feet deep
 2-3' thickness
- 0.003 gradient to west to southwest
 ↑
 pretty constant
- left in place defined to 70ppm
- Waste oil to 200ppm
- During waste oil tank pull, some acetone identified ✓ VOC
- Separate phases up to 001" thick
 benzene historically up to 13,000ppb into 1990.

- Buryan cone. seems to be following channels.
- Cap in monitoring of houseowner wells frequency due to access problems.

RI/FS Schedule:

- Prepared schedule. (included in work plan)
- Comprehensive Risk Assess. to be included in RI/FS.
- 60-day is worst case projection for County review. If review is completed sooner, then field work will begin sooner.
- When is Risk Assess. coming into play:
 - Will def. risk to homeowners
 - Also allow them to establish remedial objectives.
- Will know what risk is in 2 wks.

Remedial Invest. Work Plan:

- Proposed 19 off-site soil boring locations
 - Collect soil samples from capillary fringe
 - Follow channels.
- On-site boring program.

- two soil borings in area of ^{analysis} oil/water separator (to 14 bags) ^{for} ~~waste oil & grease~~
- Installing one well to east on boundary of site & one to the north to determine if former Shell is contributing to contamination.
- two air sparging wells, one on site & one off-site between MW-10 & 11. Will use as observation wells.
- Performing aquifer tests.
- Biofeasibility Study
 - analyzing for nutrient & bug content.
 - Info incorporated into computer modeling. Will help determine choice of remediation method or combination of methods
- 4 reports
 - 1) ¹⁾
 - 2) Results of different methods to investigate
 - 3) Risk Assess
 - 4) RIFs & modeling results
- Oil/Water separator will be addressed upon completion of

In response to Oil/Water Separator.

 - Did analyze for TOG & will be included in ^{air} report in 3 weeks

Risk Assessment:

- What are the details of construction of the irrigation wells. Where screened?
- Ravi not comfortable w/ only 3 monitoring events to determine that plume has stabilized. (Not consecutive monitoring)
 - Wants him to take highest benzene concentration.

- Collected 18 air samples

~~Draw~~ → ~~vacuum~~ ~~connection~~ - 3 samples at locations of high conc. in irrig. wells (before, during, & after operation of well)

- 2 samples

- 1 from groundwater

- 1 from irrigation spitter

- background conc. of benzene was higher than conc. at specific sites.

↑ spoke to Sam BACOMB & Sam Leavelle stated that commonly high conc. of benzene in air background 6ppb benzene in San Leandro.

- Ingestion Rate:

- Through discussion w/
homeowners - irrig. use
only.

- G.W. Quality is poor in
color, taste, turbidity.
7500 ppb TDS - not as
high as cut-off pt. of
3,000 ppb

Claiming
will not
be used for
drinking.

* - Look up chloride level &
exact TDS level

- Expos. Time & Freq:

- Consulted w/ homeowners
for actual period of well
operation

- Expos. Duration:

- Used Nat'l Average

- 9 yrs at 50th percentile

- Contacted Title Company
who calculated
residence times in
California

- 12.4 yrs average

- Ravi made comment about
real data for duration.

Ravi will work w/ Keith
Miller & Charles Lapeir.

Details of construction?

Domestic Irig Well Use:

Irrigation.

- Wells are not part of County records.
- Only 10 of 14 wells were accessible
 - 6 wells had detectable levels
 - 17349 + 17341 - highest conc
 - 870 ppb 13 ppb Benzene
- At Oct '92 count, TPH in only 2 wells
 - 17349 2200 ppb TPH
 - 17372 220 ppb TPH
- Dec '92 - all wells sampled 12 wells?
 - 3 wells had detectable
 - 17349 1500 ppb 14 ppb B
 - 17372 290 ppb 3.8 B
 - 17200 160 ppb 1.4 ppb B

Are rest of homeowners not pumping? →

- * - 17349 does still pump, even when told not to. - Ops. don't use well
- * - Heard from ^{only} 3 well owners & told that they're not pumping. How about others?

- Want to get all the homeowners to stop pumping.
Enforcement issue.

* →

→ County could ask them not to pump. - Could disconnect their wells.

Consider it (writing letter)

- Options
- Follow-up levels that not received word from homeowners.
 - Can make it inconvenient to ~~not~~ pump.
 - Don't really have well constructed details cause not in files
 - On interviews w/ homeowners ~ 25' deep for most of wells
 - Some hand dug.

Review Quickly!

~~Are~~

→ Facilitate Work plans.

HAZARDOUS MATERIALS

Site Brief for UNDERGROUND TANKS
for the City of Alameda

ALAMEDA COUNTY

as of 12/28/90

pg 1

UTID/ Status BillID	Name of Site	Site Address	#Tanks	PERMITS:
-0- T61043	C Arco Station #02112	1260 Park St. Alameda, CA 94501	5	I:09/06/88 F:-0-
784 T61043	C Arco Station #02035	1001 San Pablo Ave. Albany, CA 94706	4	I:09/06/88 F:-0-
658 T61043	C Arco Station #04977 AM/PM	2770 Castro Valley Blvd. Castro Valley, CA 94546	3	I:09/06/88 F:07/05/88
-0- T61043	C Arco Station #02152	22141 Center St. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
*1053 T61043	C Arco Station #06041	7249 Village Pkwy. Dublin, CA 94568	4	I:09/06/88 F:-0-
*813 T10115	C Arco K&V Gas Foodmart	6211 San Pablo Ave. Emeryville, CA 94608	3	I:-0- F:-0-
I * T61043	C Arco Station #05387	20200 Hesperian Blvd. Hayward, CA 94541	4	I:09/06/88 F:-0-
*0- T21120	C Airport Arco	20450 Hesperian Blvd. Hayward, CA 94541	3	I:02/03/89 F:-0-
* 2112 T42311	C Springtown Arco	909 Bluebell Dr. Livermore, CA 94550	3	I:-0- F:-0-
-0- T61043	C Arco Station #00771	899 Rincon Ave. Livermore, CA 94550	5	I:09/06/88 F:-0-
198 T61026	R Wong's Arco	2032 E. - 12th St. Oakland, CA 94606	0	I:-0- F:-0-
*0- T61043	C Arco Station #02185	9800 E. - 14th St. Oakland, CA 94603	4	I:09/06/88 F:-0-
1130 TA1036	C Freeway Arco	2740 - 98th Ave. Oakland, CA 94605	4	I:10/13/87 F:-0-
-0- T61043	C Arco Station #02169	889 W. Grand Ave. Oakland, CA 94607	5	I:09/06/88 F:-0-
*0- -0-	R Gin's Arco Service	706 Harrison St. Oakland, CA 94612	0	I:-0- F:-0-
-0- T61043	C Arco Station #04494	566 Hegenberger Rd. Oakland, CA 94621	3	I:02/05/88 F:-0-
*1038 T21043	C High St. Arco	2951 High St. Oakland, CA 94619	5	I:02/05/88 F:-0-
-0- T61043	C Arco Station #04931	731 W. MacArthur Blvd. Oakland, CA 94609	4	I:09/06/88 F:-0-
-0- T61043	C Arco Station #00276	10600 MacArthur Blvd. Oakland, CA 94605	3	I:09/06/88 F:-0-
851 T41043	C Mountain Blvd. Arco	2844 Mountain Blvd. Oakland, CA 94602	4	I:04/14/88 F:-0-
-0- T61043	C Arco Station #02107	3310 Park Blvd. Oakland, CA 94610	3	I:09/06/88 F:-0-
-0- T61043	C Arco Station #06002	6235 Seminary Ave. Oakland, CA 94605	4	I:09/06/88 F:-0-
-0- T61043	C Arco Station #06148	5131 Shattuck Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
-0- T61043	C Arco Station #00374	6407 Telegraph Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
? -0- -0-	F Freedom Arco	15101 Freedom Ave. San Leandro, CA 94578	3	I:-0- F:-0-
1794 T81053	C Tharco	2222 Grant Ave. San Lorenzo, CA 94580	1	I:08/16/88 F:-0-
779 T61043	C Arco Station #00608	17601 Hesperian Blvd. San Lorenzo, CA 94580	4	I:09/06/88 F:-0-

Site Brief for A B - 2 1 8 5
for the city of Alameda

printed: 12/28/90
page: 1

ABID/BillID	Name of Site	Site Address	Zip	SysEntry	S
/L71107	Arco Station #02112	1260 Park St.	501	10/24/90	C
/L91227	Arco Station #02035	1001 San Pablo Ave.	706	08/14/89	C
658/HL7111	Arco Station #04977	2770 Castro Valley Blvd.	546	08/14/89	C
/HL7112	Arco Station #02152	22141 Center St.	546	08/14/89	C
1053/HL7114	Arco Station #06041	7249 Village Pkwy.	568	06/04/90	C
/LC1217	Arco Station #05387	20200 Hesperian Blvd.	541	06/04/90	C
/L22223	Airport Arco	20450 Hesperian Blvd.	541	08/01/89	C
/	Springtown Arco	909 Bluebell St.	550		P
/L41112	Arco Station #00771	899 Rincon Ave.	550	07/28/89	C
/L81123	Arco Station #02185	9800 E. - 14th St.	603	08/14/89	C
1130/L91386	Freeway Arco	2740 - 98th Ave.	608	09/18/89	C
/L81146	Arco Station #02169	889 W. Grand Ave.	607	08/14/89	C
/L81176	Arco Station #04494	566 Hegenberger Rd.	621	08/14/89	C
1038/	High St. Arco	2951 High St.	619	03/21/89	P
/L81178	Arco Station #04931	731 W. MacArthur Blvd.	609	06/04/90	C
/L81128	Arco Station #00276	10600 MacArthur Blvd.	605	11/20/89	C
851/L12017	Mountain Blvd. Arco Servi	2844 Mountain Blvd.	602	11/30/90	M
/L81188	Arco Station #02107	3310 Park Blvd.	610	08/14/89	C
/L81295	Sunshine Petroleum, Inc.	6211 San Pablo Ave.	608	12/28/90	M
/HL8112	Arco Station #06002	6235 Seminary Ave.	605	08/31/90	C
/L81130	Arco Station #06148	5131 Shattuck Ave.	609	06/04/90	C
/L81179	Arco Station #00374	6407 Telegraph Ave.	609	08/14/89	C
744/HL7116	Arco Station #02111	1156 Davis St.	577	08/14/89	C
/HL7118	Arco Station #00601	712 Lewelling Blvd.	579	08/14/89	C
1794/LA1469	Tharce	2223 Grant Ave.	580	07/28/89	C
779/HL7119	Arco Station #00608	17601 Hesperian Blvd.	580	08/14/89	C

Arco Stati

Report Total : 26

Status Codes: C=Current/Part2 M=Current/Part1 P=awaiting busPla
B=ready for Billing A=ready for Billing I=Inactive

*6211 San Pablo Ave.
20167 MP.*

7/24/90

DOCUMENTS ON FILE FOR 17601 HESPERIAN BLVD., SAN LORENZO

11/25/85 Report to Emcon from Gettler-Ryan regarding soil and groundwater investigation was done in October, 1985. Four borings were made, A-A through A-D, and A-1 was developed into a monitoring well, later known as MW-2. Results in ppm:

SOIL			
Borehole	depth	gasoline	waste oil
A-A	7-8.5'		10,000 9,500
A-B	10.5-12	1,500	
A-C	4-5.5	880	
	7-8.5	1,900	
	12.5-14	2,800	
A-D	12.5-14	590	

GROUNDWATER

A-1: gasoline - 32, B - 1, T - .69, E+X - 1.5

Emcon proposed 3 borings to 15', a 4th to 30' to be developed into a monitoring well.

9/19/86 Copies of tank tightness tests indicate all tanks were tested and found to be "tight".

6/11/87 Letter asserting tanks were tested in May, 1987 and were "tight".

10/27/87 Letter from tank tester that the regular gasoline tank had failed a tightness test.

12/3/87 Memo by Larry Seto (LS) that he was informed by phone by the tester that the regular tank had failed a second test.

12/7/87 Letter from Rafat; we are aware of leak, ARCO must submit plan of correction by 1/7/88.

NOTE: No leak report exists in our files

12/17/87 Initial Closure Plan in letter form from Applied Geosystems. Stated 4 tanks to be removed.

1/6/88 Addendum to Plan submitted

1/14/88 LS informed by phone that an additional tank would be removed.

1/19/88 Report by Emcon, work plan by Applied Geosystems proposing 4 borings and 1 monitoring well. Reports that soil was excavated to the top of the tank and soil samples were taken from each end of the tank from the pit sidewall. South wall - 420 ppm, north wall - ND. Report mentions Emcon's October 1985 investigation; that soil and groundwater samples were taken and contamination was present.

2/19/88 LS met with ARCO and informed them of the need to replace removed single walled tanks with double walled tanks. He was informed of the presence of free floating product in the borehole.

Approved by [unclear] subject to [unclear] [unclear] to [unclear] [unclear]

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

3/9/88 Report from Applied Geosystems. Recommends new location for newly installed tanks. Mentions doing a survey of existing wells in the vicinity. Irrigation and domestic use wells are listed.

3/14/88 Letter from ARCO expressing interest in lining tanks in lieu of replacing them with double walled tanks in face of uncertainty about lease renewal. State that tank #4 (regular?) is out of service. Test results?

3/29/88 Memo to LS from tank lining company on products and services.

4/6/88 Letter from Rafat; lining of tank not acceptable, must install double walled tank

6/8/88 Letter from Robert H. Lee and Associates re: renewal of closure plans, including tank #5 (waste oil).

6/9/88 Application from Lee and Assoc. with closure "plans". There are 3 copies in file, not stamped accepted.

6/9/88 Memo from LS, date of removal, informing ARCO no need for remediation before new tanks could be installed.

6/9/88 Letter from ARCO stating tanks would be removed "within the next few days".

6/23/88 Memo from LS noting he had been informed of 3 tanks being installed without plans being submitted.

6/24/88 Letter to ARCO regarding improper installation

6/27/88 Meeting with ARCO and contractors regarding installation

6/30/88 Letter from Rafat to ARCO. Before proceeding with installation, this office requires:

1. Outline remediation plan
2. Date remediation will commence
3. Date remediation will "be implemented"

7/1/88 Received work plan from Pacific Environmental Group, Inc. (PEG). Recommend more monitoring wells, determine extent of contamination in unsaturated soils, install GW extraction pump, additional extraction pumps on and offsite, in situ soil aeration, and water treatment. Also promised a more specific plan within 45 days. Gave specific target dates:

- 7/31/88 - submit remedial investigation workplan
- 10/31/88 - if floating product found, begin "interim remedial measure for removal of . . floating product from groundwater."
- 12/31/88 - submit report describing onsite distribution of petroleum hydrocarbons in soil and groundwater.
- 5/31/89 - If offsite petroleum hydrocarbons found, submit report of extent in groundwater
- 6/31/89 - submit remedial action plan with recommendation for remedial action.
- 3/31/90 - final remediation system operation begins
- 6/30/90 - submit report verifying system performance

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

7/1/88 Letter from Rafat saying plan had been received and accepted, installation work may proceed

7/5/88 Tank installation plans accepted. These plans did not include remediation plans.

*(7/31/88) Remedial investigation work plan due

9/12/88 PEG checked MW-4, found 1/6" floating product

10/5/88 PEG's workplan for remediation. Proposed work included: Complete well survey, do soil gas survey, install more MWs, test aquifer for parameters of remediation.

10/7/88 PEG's report of removal activities. States removal was on 6/14/88, witnessed by Mary Jo Meyers of this office and Jim Ferdinand of Eden Fire. Sampled GW and soil. Obvious contamination of soil around waste oil. Used HNU to differentiate heavily contaminated soil from others. Included lab reports showing soil and GW contamination.

NOTE: If our rep and fire rep were there, why no acceptance stamp on plans? Why no inspection report? There are soil manifests, but none for tanks.

*(10/31/88) Interim remedial measure should have been implemented due to presence of floating product in wells.

12/22/88 PEG letter referring to 10/5/88 removal report. State intention to do vapor mapping and to submit report of findings.

*(12/31/88) Report describing onsite petroleum hydrocarbon distribution in soil and water due

2/ /89 Soil gas survey indicates off site migration of plume

3/7/89 Wells sampled. Results in ppm:
MW-3 - 150 MW-4 - 84 MW-5 - 1.3

4/15/89 Summary report from PEG to Applied Geosystems stating what activities had taken place from 1/88 to 6/88:
1/88 - A-1 sampled and renamed (?) MW-2 - 33 ppm
MW-3, MW-4 documented as existing on site
4 borings made, 2 became MW-1 and MW-5
6/88 - Removal of all tanks. Soil samples from beneath tanks showed concentrations from 7 ppm to 2800 ppm gasoline. Floating product was observed in tank pit. MW-1 + MW-2 were destroyed in process of tank removal. New tanks went into old pits. Excavated soil aerated to below 100 ppm and hauled to Kettleman.

NOTE: How was this drop in soil concentration established, and why to Kettleman Hills if below 100 ppm?

9/88 - floating product found in MW-4
2/89 - soil gas survey indicates offsite migration of hydrocarbon plume.

*(5/31/89) Report of extent of offsite contamination due

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

6/21/89 Wells sampled. Results (TPH) in ppm:
MW-3 - 63 MW-4 - 31 MW-5 - 1.1 E-1 - 1.7

*(6/31/89) Plan including remediation recommendations due
7/11/89 PEG's 2nd quarter 1989 report submitted. Gives results
of GW sampling done 3/7/89 (1st quarter) as 2nd quarter
figures. States that no remediation work was done
during 2nd quarter.

10/3/89 Applied Geosystems' report gives above sampling info.
10/4/89 PEG submitted work plan for soil and GW investigation.
Plan stated: 2/89 soil gas survey indicated that
petroleum hydrocarbons have migrated offsite to west
under Hacienda Av. and that source appears to be former
storage tanks at site, also that concentrations appear
to be decreasing. Propose: 6 more MWs; 1 to east for
lateral and upgradient direction monitoring. 4 in
downgradient direction - 1 N. on Hacienda, 2 NW at
intersection of Hacienda X Via Arriba, 1 in alley due W
of site. As required by Alameda County Water District,
recommend monthly sampling for 3 months after
installation, then quarterly. (Monthly sampling was
not done)
Note attached to front of plan stating Katherine
Chesick told Tina Barry with PEG to go ahead with the
work.

10/11/89 PEG's 3rd quarter report. States no remediation
activities performed during 3rd quarter and none
planned for 4th quarter of 1989. Gives range of
results of GW sampling on 6/21/89, promises report
forthcoming during 4th quarter.

11/14/89 Report for 3rd quarter, 1989, including June, '89
sampling data.

12/12/89 Wells sampled. MW-6 in ppm - .50. Unable to sample
other wells.

1/9/90 4th Quarter, 1989 report. States:
Awaiting approval from County on 10/4/89 work plan.
Aquifer performance test done in November 89. Results
to be in 1st quarter '90 report.
Testing of MWs in December 89. Results to be in 1st
quarter 90 report.
No remediation planned for 1st quarter of 1990

2/22/90 Reviewed October '89 work plan and asked for:
Site safety plan, manifests for removed tanks and
piping, and well purge water disposal plans.

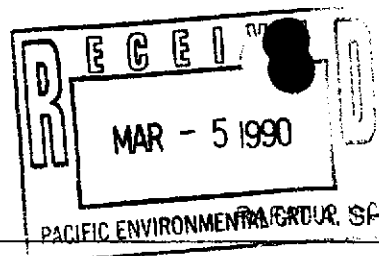
3/13/90 PEG sent addenda as requested, however, supplied only a
certificate of disposal, not manifests for
tanks/piping.

3/29/90 Wells sampled. Report MW-1 was dry and MW-4 contained
"separate phase hydrocarbons" and wasn't sampled.
MW-3 - 1,100 ppm MW-6 - .13 ppm
Witnessed boring at site for one of the proposed wells
(in SE corner of site). Also observed some purging and
sampling of existing wells.

Documents on File for 17601 Hesperian Blvd., San Lorenzo
cont'd

*(3/31/90) Final remediation systems should have been operating
4/9/90 4th quarter, 1989 report giving 12/12/89 well sampling
data
4/13/90 1st quarter, 1990 summary report. States no change
from last quarter on remediation plan status.
6/28/90 1st quarter '90 report. Included results from December
'89 and March '90 sampling. Included results of soil
vapor study.
*(6/30/90) Report verifying remediation system performance due
7/24/90 Reviewed latest submissions and spoke with Tina Barry
of PEG. She stated that PEG has not received direction
from ARCO to proceed with remediation, but has begun to
implement some of their own recommendations: 5 MWs
have been installed. 3 old MWs have been destroyed and
replaced with an extraction well SW of the tank
location. No extraction or groundwater remediation
steps have been taken.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director



PACIFIC ENVIRONMENTAL GROUP, SHAHID, Assistant Agency Director

330-06.04

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, California 94612
(415)

Tina Barry
Pacific Environmental Group, Inc.
1601 Civic Center Dr., Ste 202
Santa Clara CA 95050

RE: Arco Station #0608, 17601 Hesperian Blvd., San Lorenzo

February 22, 1990

Dear Ms. Barry:

We have reviewed Pacific Environmental's work plan of October 4, 1989 for investigation of subsurface contamination using groundwater monitoring wells at the referenced site. The work plan has been accepted by this office with the following conditions:

1. A site safety plan is required as part of the proposal. This plan must be submitted to this office before work can begin.
2. This office must be provided copies of waste manifests for the removed tanks and piping.
3. Submit well purge water disposal plans to this office.

Please notify this office of your planned starting date. Please contact Pamela Evans, Hazardous Materials Specialist, with any questions at (415)271-4320.

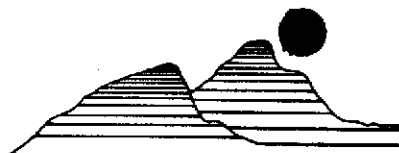
Sincerely,

Edgar B. Howell III
Chief
Hazardous Materials Division

c: Gil Jensen, Alameda County District Attorney's Office
Hosein Kazimi, RWQCB

APR 14 1989

TJC

**Applied GeoSystems**

3315 Almaden Expressway, Suite 34, San Jose, CA 95118 (408) 264-7723

QUALITY CONTROL BOARD

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

April 15, 1989
0415srit

Mr. Steven R. Ritchie
California Regional Water Quality Control Board
San Francisco Bay Region
1111 Jackson Street, Room 6040
Oakland, California 94607

Subject: Quarterly Summary Reports for various ARCO Service Stations located in Alameda County, California.

Mr. Ritchie:

Enclosed are the Quarterly Summary Reports for various ARCO Service Stations in Alameda County, California, as listed below. We are sending you these reports on behalf of Mr. Kyle Christie of ARCO Products Company.

1260 Park Street	Alameda	Service Station No. 2112
1001 San Pablo Avenue	Albany	Service Station No. 2035
3000 Shattuck Avenue	Berkeley	Service Station No. 414
22141 Center Street	Castro Valley	Service Station No. 2152
2770 Castro Valley Road	Castro Valley	Service Station No. 4977
40055 Blacow Road	Fremont	Service Station No. 2147
35900 Fremont Boulevard	Fremont	Service Station No. 2158
40077 Mission Boulevard	Fremont	Service Station No. 6201
43500 Grimmer Boulevard	Fremont	Service Station No. 6206
365 Jackson Street	Hayward	Service Station No. 1319
899 Rincon Avenue	Livermore	Service Station No. 771
10600 MacArthur Blvd.	Oakland	Service Station No. 276
6407 Telegraph Avenue	Oakland	Service Station No. 374
52nd Street	Oakland	Service Station No. 6148
3310 Park Boulevard	Oakland	Service Station No. 2107
889 West Grand Avenue	Oakland	Service Station No. 2169
731 W. MacArthur Blvd.	Oakland	Service Station No. 4931
15135 Hesperian Blvd.	San Leandro	Service Station No. 2162
17601 Hesperian Blvd.	San Lorenzo	Service Station No. 608

Quarterly Summary Reports
Alameda County, California

April 15, 1989
AGS 19011-1

ARCO Products Company has no records for the following service stations:


Mountain/Merced
556 Hegenberger Road
1401 Grand Avenue

Oakland
Oakland
San Leandro

Service Station No. 623
Service Station No. 4494
Service Station No. 530

We understand that ARCO does not own the service station located at 4191 First Street in Pleasanton, California. Please call me at (408) 264-7723 if you have questions regarding the summary reports.

Sincerely,
Applied GeoSystems


Greg Barclay
Project Branch
Manager

Applied GeoSystems



PACIFIC
ENVIRONMENTAL
GROUP, INC.

December 22, 1988
Project 330-06.03

Alameda County Health Agency
Hazardous Material Division
80 Swan Way Suite 200
Oakland, California 94621

Attn: Mr. Larry Seto

Subject: ARCO Station No. 608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Seto:

This letter is to confirm a December 5, 1988 telephone conversation with you. Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Petroleum Products has been working to remediate hydrocarbon-affected soil and groundwater at the subject station. A report documenting removal and disposal of fuel and waste oil tanks was submitted to the Alameda County Health Agency on October 7, 1988. ARCO is anxious to continue the remedial investigation and remedial action at the site.

In our December 5, 1988 telephone conversation we discussed the June 27, 1988 corrective action work plan, which proposed a strategy for remedial investigation and remedial action at the site. PACIFIC is documenting the telephone conversation as a verbal authorization to proceed from the Alameda County Health Agency. Therefore, PACIFIC is proceeding with the first item described in the work plan, which includes vapor mapping in the unsaturated soil near the former tank complex. Per your request, we will forward results of the vapor mapping prior to monitoring well installation.

December 22, 1988
Project 330-06.03
Page 2

If you have any questions or require additional information,
please do not hesitate to contact Mr. Kyle Christie of ARCO at
(415) 571-2434.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



Robert K. Wenzlau
Senior Engineer

RKW/dl

cc: Mr. Kyle Christie, ARCO
Mr. Chris Winsor, ARCO
San Francisco Bay Regional Water Quality Control Board,
Fuel Leaks Division

EXISA

LHM NC

ALAMEDA COUNTY
HEALTH CARE SERVICES



David J. Kears
~~XXXXXXXXXXXX~~ Agency Director

Department of Environmental Health

Certified Mail # P 691 214 983

Hazardous Materials Div. ~~4002700 Street Blvd Floor~~
80 Swan Way, Rm. 200 ~~Oakland, California 94612~~
Oakland, CA 94621 (415)271-4320

June 30, 1988

PWS
CALIFORNIA REGIONAL WATER

JUL 05 1988

Mr. Kyle Christie, Environmental Engineer
Arco Petroleum Products
2000 Alameda De Las Pulgas
P.O. Box 5811
San Mateo, CA 94403

QUALITY CONTROL BOARD

RE: UNDERGROUND TANK INSTALLATION AT 17601 HESPERIAN BLVD.,
SAN LEANDRO, CA

ALAMEDA CO.

Dear Mr. Christie:

Pursuant to the meeting you had with Ed Howell and Larry Seto, on June 27, 1988, concerning remediation at the above site. After contact with the Regional Water Quality Control Board, the following information needs to be submitted to our office:

1. A remediation plan stating the method for soil and ground water clean-up. This does not need to be a detailed engineer or geological plan.
2. Date when remedial investigation will commence.
3. Date when remedial system will be implemented.

Once this information is received and accepted, we will respond by letter, once installation plans are approved, then construction may be resumed.

If you have any questions, please contact Larry Seto, Hazardous Materials Specialist, at 271-4320.

Sincerely,

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:LS:mnc

- cc: Gil Jensen, Alameda County District Attorney, Consumer & Environmental Protection Agency
Dwight Hoenig, DOHS
Pete Johnson, RWQCB
Rick Henderson, Golden West Builders
Robert Wenzlan, Pacific Environmental Group

ARCO Petroleum Products Company

2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400

Handwritten initials "GZ" and a checkmark.



Handwritten initials "AC".

March 14, 1988

CALIFORNIA REGIONAL WATER
QUALITY CONTROL BOARD
MAR 17 1988

Mr. Greg Zentner
Regional Water Quality Control Board
1111 Jackson Street
Oakland, CA 94612

Subject: Work Plan at ARCO Service Station, 17601
Hesperian Boulevard, San Lorenzo, CA

Dear Mr. Zentner:

Enclosed are specifications and data you requested in our conversation about fiberglass lining of steel underground tanks.

Our plan to address the problem of the leaking tank (since pumped out) has changed in scope due to difficulties in obtaining a renewal of the base lease at this location. It is our desire to fiberglass line all of the underground gasoline storage tanks at this location, using a licensed contractor adhering to the specifications outlines in the enclosed materials. After this work is completed, it is our desire to bring all of the tanks back into service at this location.

<u>Tank Information</u>	<u>Size</u>	<u>Product</u>	<u>Status</u>	<u>Work Planned</u>
Tank 1	6000 steel	Regular	Operating	F.G. Line
Tank 2	6000 steel	Unleaded	Operating	F.G. Line
Tank 3	6000 steel	Unleaded	Operating	F.G. Line
Tank 4	6000 steel	Supreme	Out of Ser.	F.G. Line
Tank 5	120 steel	Waste Oil		

Overfill containment will be installed on all underground systems. All tanks would then be retested using a full system petrotite test.

It is our intention that if a lease renewal is obtained, ARCO will submit another plan to your department for replacement of all underground storage systems using double wall fiberglass tanks and piping at a later date. If you have any questions, please call me at 415/944-6381.

Sincerely,

ARCO Petroleum Products Co.

Chase Jianhalone
Project Engineer

CJJ:cs
Enclosure: Tank Lining Specifications



Applied GeoSystems

43255 Mission Blvd. Suite B Fremont, CA 94539 (415) 651-1906

CALIFORNIA REGIONAL WATER

DEC 01 1987

GSZ

QUALITY CONTROL BOARD

November 30, 1987
1130gzen
87131-1

Mr. Greg Zentner
California Regional Water
Quality Control Board
1111 Jackson Street
Room 6040
Oakland, CA 94607

Subject: Underground Storage Tank Unauthorized Release Report
for ARCO Service Station located at 17601 Hesperian
Boulevard, San Lorenzo, California

Mr. Zentner:

ARAMEDA

Please find enclosed a "Underground Storage Tank Unauthorized Release Report" for the above-referenced site.

If you have any questions regarding this matter please do not hesitate to call me at (415) 651-1906.

Sincerely,
Applied GeoSystems

JTL
John T Lambert
Project Geologist

Attachment: Underground Storage Tank Unauthorized Release Report

cc: Hank Sheetz, ARCO Petroleum Products Company

B3

GSZ

2/6/87

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO (UNKNOWN) HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO	STATE TANK ID - (UNKNOWN)
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REPORT DATE (UNKNOWN)	LOCAL CASE # (UNKNOWN)	REGIONAL BOARD CASE # (UNKNOWN)	US EPA ID # (UNKNOWN)
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REPORTED BY	NAME OF INDIVIDUAL FILING REPORT HANK SHEETZ <small>CHRIS WINSOR</small>	PHONE EXT 494-1304 (800) 825-4444	SIGNATURE <i>[Signature]</i>	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ARCO PETROLEUM PRODUCTS CO.		
	<input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD	ADDRESS Box 5811 SAN MATEO CA. 94402 <small>STREET CITY STATE ZIP</small>		

RESPONSIBLE PARTY	NAME ARCO PETROLEUM PRODUCTS CO <small>UNKNOWN</small>	CONTACT PERSON HANK SHEETZ	PHONE EXT 494-1304 (800) 825-4444
	ADDRESS Box 5811 SAN MATEO CA. 94402 <small>STREET CITY STATE ZIP</small>		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO SERVICE STATION	OPERATOR (UNKNOWN)	PHONE (UNKNOWN)
	ADDRESS 17601 HESPERIAN BLVD. SAN LORENZO ALAMEDA <small>STREET CITY COUNTY ZIP</small>		
SITE LOCATION	CROSS STREET HACHENDA	TYPE OF AREA <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input checked="" type="checkbox"/> RESIDENTIAL <input type="checkbox"/> RURAL <input type="checkbox"/> OTHER	TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER

IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME ALAMEDA CO. DIV OF ENV. HEALTH	CONTACT PERSON T.M. GEROW	PHONE (415) 874-6434
	REGIONAL BOARD BAY AREA REGIONAL WATER QUAL CONTROL BRD <small>TSCD</small>	GREG ZENTNER	(415) 464-1255

SUBSTANCES INVOLVED	CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME GASOLINE	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(1) _____	<input type="checkbox"/> UNKNOWN
	(2) _____	<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED (UNKNOWN #) (UNKNOWN #) <small>M M D D Y Y</small>	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> ROUTINE MONITORING <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER: TANK TEST	
	DATE DISCHARGE BEGAN <small>M M D D Y Y</small> <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURES <input type="checkbox"/> OTHER	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE <small>M M D D Y Y</small>		

SOURCE/CAUSE	SOURCE(S) OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER (SPECIFY)	TANKS ONLY/CAPACITY _____ GAL AGE _____ YRS. <input type="checkbox"/> UNKNOWN MATERIAL <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER OLD TANK
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RESOURCES AFFECTED/AT RISK	RESOURCES AFFECTED	WATER SUPPLIES AFFECTED																																																																							
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>YES</th> <th>NO</th> <th>THREATENED</th> <th>UNKNOWN</th> </tr> <tr> <td>AIR (VAPOR)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>SOIL (VADOSE ZONE)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>GROUNDWATER</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>SURFACE WATER OR STORM DRAIN</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>BUILDING OR UTILITY VAULT</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>OTHER (SPECIFY)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>		YES	NO	THREATENED	UNKNOWN	AIR (VAPOR)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SOIL (VADOSE ZONE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GROUNDWATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SURFACE WATER OR STORM DRAIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BUILDING OR UTILITY VAULT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>YES</th> <th>NO</th> <th>THREATENED</th> <th>UNKNOWN</th> <th># OF WELLS</th> </tr> <tr> <td>PUBLIC DRINKING WATER</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>PRIVATE DRINKING WATER</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>INDUSTRIAL</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>AGRICULTURAL</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>OTHER (SPECIFY)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> </table>		YES	NO	THREATENED	UNKNOWN	# OF WELLS	PUBLIC DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	PRIVATE DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	INDUSTRIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	AGRICULTURAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
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COMMENTS	COMMENTS: COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED
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UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO	STATE TANK ID # _____
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REPORT DATE M M D D Y Y	LOCAL CASE # _____	REGIONAL BOARD CASE # _____	US EPA ID # _____
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REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <i>Harold Sheets</i>	PHONE <i>(916) 434-1111</i>	SIGNATURE <i>[Signature]</i>
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME <i>W. J. BROWN PRODUCTS CO</i>	
	<input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD	ADDRESS <i>1111 N. ...</i>	

RESPONSIBLE PARTY	NAME <i>Harold Sheets</i> <input type="checkbox"/> UNKNOWN	CONTACT PERSON <i>Harold Sheets</i>	PHONE <i>(916) 434-1304</i> <i>(916) 434-4444</i>
	ADDRESS <i>1111 N. ...</i>	CITY <i>...</i>	STATE ZIP <i>CA 94402</i>

SITE LOCATION	FACILITY NAME (IF APPLICABLE) <i>...</i>	OPERATOR <i>(Unknown)</i>	PHONE <i>()</i>
	ADDRESS <i>1111 N. ...</i>	CITY <i>...</i>	STATE COUNTY ZIP <i>CA ...</i>
	CROSS STREET <i>...</i>	TYPE OF AREA <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input checked="" type="checkbox"/> RESIDENTIAL <input type="checkbox"/> RURAL <input type="checkbox"/> OTHER	TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER

IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME <i>...</i>	CONTACT PERSON <i>T.M. GELLW</i>	PHONE <i>(916) 434-1434</i>
	REGIONAL BOARD <i>...</i>	<i>...</i>	<i>...</i>
	TSCD <i>...</i>	<i>...</i>	<i>...</i>

SUBSTANCES INVOLVED	CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME <i>...</i>	QUANTITY LOST (GALLONS) _____ <input type="checkbox"/> UNKNOWN
	(2) _____	_____ <input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED M M D D Y Y	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> ROUTINE MONITORING <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER: _____
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	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE M M D D Y Y	<input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURES <input type="checkbox"/> OTHER _____

SOURCE/CAUSE	SOURCE(S) OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER (SPECIFY) _____	TANKS ONLY/CAPACITY _____ GAL AGE _____ YRS. <input type="checkbox"/> UNKNOWN MATERIAL <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> OTHER _____	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____
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COMMENTS	COMMENTS: COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED
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INSTRUCTIONS

-2-

1. GENERAL

In box titled "EMERGENCY", indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

In space provided, enter state tank ID number if known. State ID numbers have been assigned to all tanks that are on file with the State Water Resources Control Board. Enter today's date in the box titled "Report Date". Enter local and Regional Water Quality Control Board case numbers if known. Enter the US EPA facility number if applicable.

2. REPORTED BY

Enter your name, telephone number and address. Indicate which party you represent, and provide company or agency name.

3. RESPONSIBLE PARTY

Enter the name, telephone number, contact person, and address of the party responsible for the leak, or mark unknown. For tank leaks, the responsible party would normally be the tank owner.

4. SITE LOCATION

Enter information regarding the tank facility and surrounding area. If a known tank or facility is not involved, enter general location of the contamination site as best possible; i.e., street, city, county, zip, cross street, and type of area.

5. IMPLEMENTING AGENCIES

Enter names of the local agency, Regional Board and/or Toxic Substances Control Division (TSCD) regional office involved and a contact person and telephone number for each.

6. SUBSTANCES INVOLVED

Enter the CAS number(s) (if known), name(s), and quantities lost of all hazardous substances involved. Attach an extra sheet if more than two substances are involved. Be as specific as possible.

7. DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the discharge. More than one box may be checked in the sections titled "How Discovered" and "Method Used To Stop Discharge" if appropriate.

8. SOURCE/CAUSE

Indicate source(s) of discharge. Provide details on tank age; capacity and material if a tank is involved. Check box(es) indicating cause of discharge. More than one box may be checked if appropriate.

9. RESOURCES AFFECTED/AT RISK

In section titled "RESOURCES AFFECTED" indicate whether any of the resources listed have been affected ("YES"), will not be affected ("NO"), or may be affected ("THREATENED") by the release. Check "UNKNOWN" if unsure of the status of a resource. Specify any unlisted resources which are, or may be, involved under "OTHER". The same instructions apply to the section titled "WATER SUPPLIES AFFECTED." Give the number of water wells affected or threatened, if known. Provide the name of the ground-water basin underlying the site, if known, in the space provided.

10. COMMENTS

Use this space to elaborate on any aspects of the incident. Comments on cleanup work or planning or related investigations should be reported on a separate Cleanup Tracking Report.

11. SIGNATURE

Sign the form in the space provided.

DISTRIBUTION

Hand deliver or mail copies of the form as follows:

- | | |
|--|--|
| 1) Original - Local Agency | 3) Regional Water Quality Control Board |
| 2) State Water Resources Control Board
Division of Water Quality
Underground Tank Program
P. O. Box 100
Sacramento, CA 95801 | 4) Toxic Substances Control Division
Underground Tank Program
714/744 P Street
Sacramento, CA 95814 |
| | 5) Owner/responsible party |

Meeting on 6/27/88 concerning installation of
U.G.T without approval.

Chase Jiondone ARCO

Paul Anderson Golden West Builders

KYLE CHRISTIE ARCO

BOB WENZEL PACIFIC ENV. GRP

Larry Seto

Edgar B Howells Li Haz. MNT Spec

ALAMEDA COUNTY
HEALTH CARE SERVICES

DAVID J. KEARS AGENCY
~~XXXXXXXXXX~~, Agency Director



470-27th Street, Third Floor
Oakland, California 94612
(415)874-7237

Certified Mail #P 119 024 062

December 7, 1987

Mr. Ron Miles
Arco Petroleum Products
P.O. Box 5811
San Mateo, CA 94402

Dear Mr. Miles:

Our office was informed by Becker Industries, inc., that your regular leaded underground storage tank at 17601 Hesperian Blvd., San Lorenzo, CA, failed it's Petro-tite hydrostatic tank test on October 20, 1987, and the retest on November 2, 1987. *Araceno*

Section 25189(d), California Health & Safety Code states that, "any person who negligently disposes or causes the disposal of any hazardous or extremely hazardous waste, at a point which is not authorized, shall be subject to a civil penalty of not more than twenty-five thousand (\$25,000) dollars for each violation.

Section 66328(d), California Administrative Code, Title 22, states that, if corrections are needed, the operator shall provide the Department with a written plan of correction, which states the actions to be taken and the expected dates of completion.

Please submit to our office, your plan of correction within thirty (30) days of the receipt of this letter. Your plan must include, but is not limited to the following:

1. Worker's Health and Safety Plan
2. Method(s) to be used to determine the lateral and vertical extent of the contamination
3. Name of licensed hazardous waste hauler if needed
4. Name of disposal site if needed

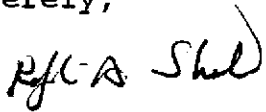
Mr. Ron Miles
Arco Petroleum Products
San Mateo, CA 94402
December 7, 1987
Page 2 of 2

Please be advised that when your plan of correction is submitted, you will be requested to submit a deposit check as per the Underground Tank Ordinance, Section 3-140.4.

Although the County of Alameda is the lead agency at this time, the Regional Water Quality Control Board has responsibilities for overseeing the underground fuel tank leak cases.

If you have any questions, please contact Larry Seto, Hazardous Materials Specialist, at 874-7237.

Sincerely,



Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:LS:mnc

cc: Pete Johnson, RWQCB
Gil Jensen, Alameda County District Attorney, Consumer & Environmental
Protection Agency
Dwight Hoenig, DOHS
Jim Abadam, Service Station Owner

INTRAOFFICE SPILL/COMPLAINT INCIDENTS

Office Notification Date: <u>11/4/87</u> Time: <u>1645</u> Rcvd by: <u>JPR</u> Rptd by: _____ Agcy: <u>State OES</u> Addr: _____ Phone: _____	RESPONSE/INFO ROUTING To Field Inspector (Original) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Seq</th> <th>TO</th> <th>Ini</th> <th>Time</th> <th rowspan="3"> <input type="checkbox"/> Emergency Hand deliver / Phone contact </th> </tr> <tr> <td> </td> <td>MIK</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td>PVJ</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td>RSS</td> <td> </td> <td> </td> <th> <input type="checkbox"/> Routine Inbasket </th> </tr> </table>	Seq	TO	Ini	Time	<input type="checkbox"/> Emergency Hand deliver / Phone contact		MIK				PVJ				RSS			<input type="checkbox"/> Routine Inbasket			
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	RSS			<input type="checkbox"/> Routine Inbasket																		
Incident Type: <input type="checkbox"/> Emergency <input type="checkbox"/> Routine <input type="checkbox"/> Spill <input type="checkbox"/> Oil <input type="checkbox"/> Chem <input type="checkbox"/> Other <input type="checkbox"/> Complaint <input type="checkbox"/> Other	INFORMATION ROUTING (copy) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Seq</th> <th>To</th> <th>Ini</th> <th>Time</th> <th rowspan="5"> * Emergency or If Media In- volved, hand carry to EO. </th> </tr> <tr> <td> </td> <td>SL</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td>DC</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td>AEO</td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td>EO *</td> <td> </td> <td> </td> </tr> </table> File: _____	Seq	To	Ini	Time	* Emergency or If Media In- volved, hand carry to EO.		SL				DC				AEO				EO *		
Seq	To	Ini	Time	* Emergency or If Media In- volved, hand carry to EO.																		
	SL																					
	DC																					
	AEO																					
	EO *																					

leaking tank

INCIDENT INFORMATION (Completed by individual receiving complaint)

Discharge Date: 11/4 Time: 1535 Previous Occurrence: Y (N)

Type of Material: gasoline Volume: unknown

Source: Arco station Address: 17601 Hesperian Blvd
(Hayward) CALIF 94504
 Phone: 278-2977

Cause: leaking tank report made by Martin Beasques (maybe Velasquez)
of Arco
571-2429

State Waters Impacted: _____

Extent of Impact: possibly some wells nearby

RESPONSE (Completed by investigator)

Staff Investigation: Phone Contact _____ Phone # _____

Other Agency Responding: SDF&G USGS Co. Health Other: _____

AGENCY NOTIFIED (Completed by investigator; in emergencies, by complaint taker)

	Date/Time	Contact	Phone #	Required for Sig:
EPA	_____	_____	_____	spills
USCG	_____	_____	336-3741	oil/chem spills
SDF&D	_____	_____	8-944-2011	fish kills/spills
Co. H.D. ()	_____	_____	_____	public health
Other	_____	_____	_____	

CONTACTS MADE BY MEDIA

Media	Reporter	Staff Contact	Date/Time
_____	_____	_____	_____
_____	_____	_____	_____

(Use back for
add. notes)