

**RECEIVED**

By dehloptoxic at 10:51 am, Feb 01, 2007



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 1257  
San Ramon, California 94583  
Phone: (925) 275-3801  
Fax: (925) 275-3815

26 January 2007

Re: Fourth Quarter 2006 Status Report  
Atlantic Richfield Company Station #2112  
1260 Park Street  
Alameda, California  
ACEH Case #RO0000044

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple  
Environmental Business Manager

Broadbent & Associates, Inc.  
1324 Mangrove Ave., Suite 212  
Chico, CA 95926  
Voice (530) 566-1400  
Fax (530) 566-1401



26 January 2007

Project No. 06-08-616

Atlantic Richfield Company  
P.O. Box 1257  
San Ramon, California 94583  
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Fourth Quarter 2006 Status Report, Atlantic Richfield Company (a BP affiliated company) Station #2112, 1260 Park Street, Alameda, Alameda County, California; ACEH Case No.RO0000044.

Dear Mr. Supple:

Provided herein is the *Fourth Quarter 2006 Status Report* for Atlantic Richfield Company Station #2112 (herein referred to as Station #2112) located at 1260 Park Street, Alameda, Alameda County, California (Site). This report presents a summary of recent developments at the site during Fourth Quarter of 2006.

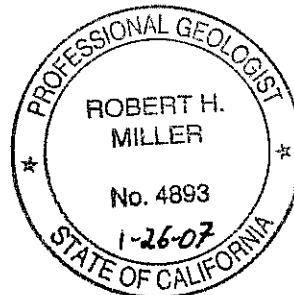
Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.  
Senior Engineer

Robert H. Miller, P.G., C.HG.  
Principal Hydrogeologist



Enclosures

cc: Mr. Stephen Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp Site)  
Electronic copy uploaded to GeoTracker

## STATION #2112 QUARTERLY STATUS REPORT

Facility: #2112	Address:	1260 Park Street, Alameda, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Company/Contact Person:		Broadbent & Associates, Inc./Rob Miller & Tom Venus, (530)566-1400
Consultant Project No.:		06-08-616
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case No. RO0000044

### WORK PERFORMED THIS QUARTER (Fourth Quarter 2006):

1. Prepared and submitted the Third Quarter 2006 Ground-Water Monitoring Report.
2. No environmental work was conducted at the site during the Fourth Quarter 2006.

### WORK PROPOSED FOR NEXT QUARTER (First Quarter 2007):

1. Prepared and submitted this Fourth Quarter 2006 Status Report (contained herein).
2. No environmental work is scheduled to be conducted at the Site during the First Quarter of 2007.

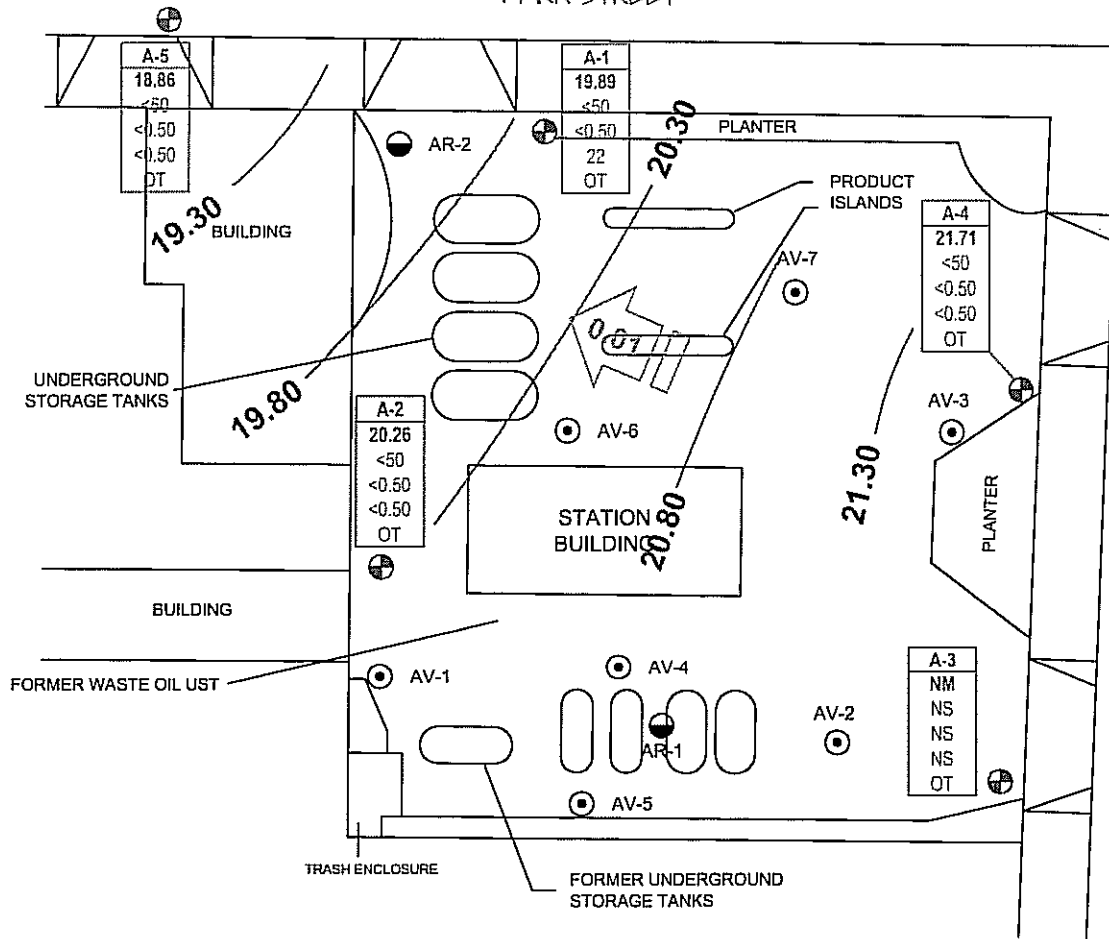
### DISCUSSION:

Case closure was requested by BP on 4 June 2004 from ACEH. In a letter dated 20 June 2006, ACEH requested rehabilitation, redevelopment, ground-water monitoring and sampling of the onsite monitoring wells to resume the site closure process. A summary of well rehabilitation/redevelopment, and ground-water monitoring and sampling results were presented in the Third Quarter 2006 Ground-Water Monitoring Report. BP is awaiting a response from the ACEH to the closure request in light of the Third Quarter 2006 monitoring results. A Ground-Water Elevation Contour and Analytical Summary Map from Third Quarter 2006 is provided as Drawing 1.

### ATTACHMENTS:

Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, 17 July 2006, Station #2112, 1260 Park Street, Alameda, California

PARK STREET



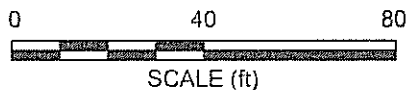
**LEGEND:**

- A-1 MONITORING WELL LOCATION
  - AR-1 GROUND-WATER EXTRACTION WELL LOCATION
  - AV-1 VAPOR EXTRACTION WELL LOCATION
  - 20.30 GROUND-WATER ELEVATION CONTOURS (FT MSL)
  - 0.01 GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)
- | Well    | WELL DESIGNATION  |
|---------|---|
| ELEV    | GROUND-WATER ELEVATION (FT MSL)                             |
| GRO     | GRO, BENZENE AND MTBE CONCENTRATIONS IN GROUND WATER (µg/L) |
| Benzene |   |
| MTBE    |   |
| OT      | SAMPLING FREQUENCY  |
- NM/MS NOT MEASURED/NOT SAMPLED
  - < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
  - OT ONE TIME, PER ACEH REQUEST OF 6/20/2006

ENCINAL AVENUE



NOTE: SITE MAP ADAPTED FROM URS FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 1324 Mangrove Ave. Suite 212, Chico, California 95926  
 Project No.: 06-08-616 Date: 09/11/06

Station #2112  
 1260 Park Street  
 Alameda, California

Ground-Water Elevation Contour  
 and Analytical Summary Map  
 17 July 2006

Drawing  
**1**

Broadbent & Associates, Inc.  
1324 Mangrove Ave., Suite 212  
Chico, CA 95926  
Voice (530) 566-1400  
Fax (530) 566-1401

**RECEIVED**

By dehloptoxic at 11:03 am, Aug 01, 2006



24 July 2006

Project No. 06-08-616

Atlantic Richfield Company  
P.O. Box 1257  
San Ramon, California 94583  
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Second Quarter 2006 Report, Atlantic Richfield Company (a BP affiliated company)  
Station #2112, 1260 Park Street, Alameda, Alameda County, California;  
ACEH Case No.3629/RO44.


Dear Mr. Supple:

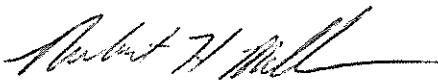
Provided herein is the *Second Quarter 2006 Status Report* for Atlantic Richfield Company Station #2112 located at 1260 Park Street, Alameda, Alameda County, California. This report presents a summary of recent developments at the site during Second Quarter 2006.

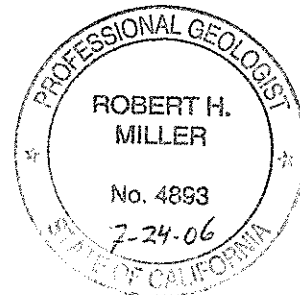
Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

  
Thomas A. Venus, P.E.  
Senior Engineer

  
Robert H. Miller, P.G., C.H.G.  
Principal Hydrogeologist



Enclosures

cc: Mr. Stephen Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp Site)  
Electronic copy uploaded to GeoTracker

## STATION #2112 QUARTERLY GROUND-WATER STATUS REPORT

Facility: #2112	Address:	1260 Park Street, Alameda, California
Environmental Business Manager:		Mr. Paul Supple
Consulting Company/Contact Person:		Broadbent & Associates, Inc./Thomas Venus, (530)566-1400
Consultant Project No.:		06-08-616
Primary Agency/Regulatory ID No.:		Alameda County Environmental Health (ACEH) ACEH Case No.3629 / RO44

### WORK PERFORMED THIS QUARTER (Second Quarter 2006):

1. Prepared and submitted the First Quarter 2006 Status Report. Work performed by URS.
2. No environmental work was conducted at the site during the Second Quarter 2006.

### WORK PROPOSED FOR NEXT QUARTER (Third Quarter 2006):

1. Prepared and submitted this Second Quarter 2006 Status Report (contained herein).
2. Onsite wells rehabilitated, redeveloped, and ground-water monitoring and sampling conducted at the request of ACEH. Work performed by URS in mid-July.
3. Prepare and submit the Third Quarter 2006 Ground-Water Monitoring Report.

### DISCUSSION:

Case closure was requested on 4 June 2004 from ACEH. BP had been awaiting a response from the ACEH. In a letter dated 20 June 2006, ACEH requested rehabilitation, redevelopment, ground-water monitoring and sampling of the onsite monitoring wells to resume the site closure process. A summary of well rehabilitation/redevelopment, and ground-water monitoring and sampling results will be presented in the Third Quarter 2006 when results become available.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

June 20, 2006

Mr. Paul Supple  
BP West Coast Products LLC  
PO Box 6549  
Moraga, CA 94549

Subject: Fuel Leak Case No. RO0000044, Arco #2112 1260 Park Street, Alameda, CA

Dear Mr. Supple:

Alameda County Environmental Health (ACEH) staff have reviewed the case file for the above referenced site. Considering the site history, site closure request and the incomplete site closure summary dating back to November 1997, ACEH considers it appropriate to evaluate the closure request based on current site conditions. To continue the site closure process, ACEH requests that additional groundwater monitoring and sampling be completed at the site. Our request is based on the conclusion that the most recent groundwater monitoring data available in our files dates back from 1997.

If water quality data indicate that groundwater conditions are similar to historical conditions it is likely that the site will be moved to closure. However, if current groundwater quality data indicate that elevated concentrations of petroleum hydrocarbons exist further investigation may be warranted.

Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to [steven.plunkett@acgov.org](mailto:steven.plunkett@acgov.org)) prior to the start of field activities.

**TECHNICAL COMMENTS**

1. **Well Rehabilitation and Redevelopment.** Considering the length of time that has passed since the June 1997 groundwater sampling event, ACEH requests that all onsite monitoring wells should be rehabilitated and/or redeveloped; thus allowing the collection of a representative sample of formation groundwater. Please describe and present the results of the well redevelopment and rehabilitation activities in the report requested below.
2. **Groundwater Monitoring and Sampling.** Groundwater monitoring has not been conducted at the site since 1996. Please sample the existing monitoring wells in order to determine current groundwater conditions throughout the site. The water samples are to be analyzed for TPHg and TPHd by EPA Method 8015M or 8260, BTEX, EDB, EDC, MtBE, TAME, ETBE,

DIPE, TBA and EtOH by EPA Method 8260. Please present the results from groundwater monitoring and sampling in the report requested below.

### **TECHNICAL REPORT REQUEST**

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Steven Plunkett), according to the following schedule:

- **August 1, 2006** –Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### **ELECTRONIC SUBMITTAL OF REPORTS**

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic\\_reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting)).

### **PERJURY STATEMENT**

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be



Mr. Paul Supple  
June 20, 2006  
Page 3

signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

**PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS**

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

**UNDERGROUND STORAGE TANK CLEANUP FUND**

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

**AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 383-1767.

Sincerely,



Steven Plunkett  
Hazardous Materials Specialist

cc: Ms. Lynelle Onishi  
URS Corporation Inc.  
1333 Broadway  
Oakland, CA 94610

Mr. Matthew Herrick  
Broadbent & Associates, Inc.  
1324 Mangrove Ave., Suite 212

Mr. Paul Supple  
June 20, 2006  
Page 4

Chico, CA 95926

Donna Drogos, ACEH  
Steven Plunkett, ACEH  
✓ File



Atlantic Richfield Company  
(a BP affiliated company)

P.O. Box 6549  
Moraga, California 94570  
Phone: (925) 299-8891  
Fax: (925) 299-8872



bp

November 2, 2005

Re: **Third Quarter 2005 Status Report**  
**Atlantic Richfield Company Service Station #2112**  
**1260 Park Street**  
**Alameda, California**  
**URS Project #38487024**

I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

  
Paul Supple  
Environmental Business Manager

November 2, 2005

Ms. Donna Drogos  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Third Quarter 2005 Status Report  
Atlantic Richfield Company Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38487024**

Dear Ms. Drogos:

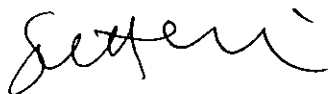
On behalf of Atlantic Richfield Company, a BP affiliated Company, URS Corporation (URS) is submitting the *Third Quarter 2005 Quarterly Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

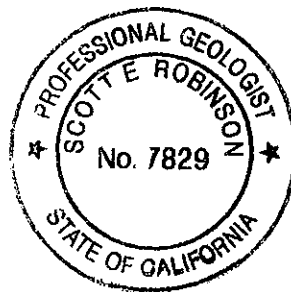
If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION



Scott Robinson  
Project Manager



Enclosure: Third Quarter 2005 Quarterly Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

Date: November 2, 2005  
Quarter: 3Q 05

**THIRD QUARTER 2005 QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38487024  
Primary Agency: Alameda County Environmental Health (ACEH)

**WORK PERFORMED THIS QUARTER (Third - 2005):**

1. No environmental work was conducted at the site during the third quarter 2005.
2. Prepared and submitted this Third Quarter 2005 Quarterly Status Report.
3. Requested an update on Case Closure Report submitted on November, 20, 1996.

**WORK PROPOSED FOR NEXT QUARTER (Fourth - 2005):**

1. No environmental work is expected for the site during the fourth quarter 2005.
2. Prepare and submit Fourth Quarter 2005 Quarterly Status Report.



February 25, 2005

Alameda County  
FEB 23 2005  
Environmental Health

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: First Quarter 2005 Status Report  
Atlantic Richfield Company Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38487024**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated Company, URS Corporation (URS) is submitting the *First Quarter 2005 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

Enclosure: First Quarter 2005 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)



Date: February 25, 2005  
Quarter: 1Q 05

**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38487024  
Primary Agency: Alameda County Environmental Health (ACEH)

**WORK PERFORMED THIS QUARTER (First – 2005):**

1. No environmental work will be conducted at the site during the first quarter 2005.
2. Prepare and submit this first quarter 2005 status report.
3. Request an update on Case Closure Report submitted on November, 20, 1996.

**WORK PROPOSED FOR NEXT QUARTER (Second – 2005):**

1. No environmental work is expected for the site during the second quarter 2005.
2. Prepare and submit second quarter 2005 status report.
3. Request an update on Case Closure Report submitted on November, 20, 1996.



# Acculabs Inc. - Davis

## TPH Diesel by 8015 Mod QC Report

Matrix: Water

Date Extracted: 10/4/00

QC Batch: DW001001


Date Analyzed: 10/4/00

QC Limits Set: 7/27/00

Parameter	Spike Conc	LCS	LCSD	RPD
	ug/L	% Rec	% Rec	
TPH as Diesel	1000	107	97	9.8

Control Chart Limits	
Lower	Upper
66	127

	MDL	Measured value
	ug/L	ug/L
Method Blank		
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100

  
\_\_\_\_\_  
Tom Kwoka  
Laboratory Director





ARCO Products Company

Post Office Box 612530  
San Jose, California 95161

Environmental Remediation



June 14, 1996

Projects: 330-084.5C/330-105.5B  
330-106.5C/330-109.5B

Ms. Sue Jenne  
East Bay Municipal Utilities District  
P.O. Box 24055  
Oakland, California 94623-1055

Re: Request to Relinquish Wastewater Discharge Permits  
Miscellaneous sites

Dear Ms. Jenne:

ARCO Products Company wishes to relinquish the wastewater discharge permits for the following sites, effective immediately. Please do not hesitate to call if you have any questions.

1. Discharge Permit 502-85611  
ARCO Service Station 0374  
6407 Telegraph Avenue  
Oakland, California
2. Discharge Permit 502-64411  
ARCO Service Station 2107  
3310 Park Boulevard at East 34th Street  
Oakland, California
3. Discharge Permit 502-65201  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California
4. Discharge Permit 502-62131  
ARCO Service Station 4931  
731 West MacArthur Boulevard  
Oakland, California

Sincerely,  
ARCO Products Company

Michael Whelan  
Environmental Engineer

cc: Mr. Barney Chan, Alameda County Health Care Services Agency  
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region  
Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Shaw Garakani, Pacific Environmental Group, Inc.

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

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

ALCO  
HAZMAT



91 SEP 13 PM 2:14  
September 9, 1994

Ms. Susan Hugo  
Alameda County Health Care Services  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Transfer of ARCO Projects.

Dear Ms. Hugo:

The purpose of this letter is to inform you of changes that ARCO Products Company (ARCO) has recently made in regards to environmental consulting firms working on environmental projects at existing and former ARCO retail facilities. In an effort to promote consistency, be more proactive, streamline communications and reduce costs, ARCO has significantly reduced the number of environmental consultants performing assessment and remedial activities on these environmental projects. The consolidation, which took effect on 9/1/94, involves a reduction of approximately 75% to 80% of the consulting firms that ARCO previously used. ARCO firmly believes that this consolidation effort will dramatically streamline ARCO's communication process, both with your office and staff as well as with ARCO's remaining consultants. The consulting firms which ARCO will now use at retail facility environmental projects throughout the west (WA, OR, CA, NV and AZ) include: Brown & Caldwell, Delta Environmental, Emcon Associates, Pacific Environmental Group, and Secor.

Attached to this letter is a list of sites in your jurisdiction that have recently been transferred to one of the five consulting firms listed above. In most cases, these five consulting firms were already working on ARCO projects in your jurisdiction. Also included in the list is the name of the ARCO engineer responsible for the site. please don't hesitate to call the respective ARCO engineer or the consultant's regional contact if you have any questions regarding any of the projects.

The transfer of the projects from the former consultant to one of the five firms listed above should be completed by October 1, 1994. Shortly thereafter I will be contacting you to schedule a meeting to introduce you to the primary contacts at the consulting companies and to review the projects with your staff. Please contact me at (415) 571-2468 if you have any questions concerning this letter.

Sincerely,

Kyle Christie

## ALAMEDA COUNTY HEALTH DEPT.

Facility Number	City	Address	New Consulting Firm	ARCO Engineer	ARCO Engineer phone number
276	Oakland	10600 MacArthur Blvd.	Emcon	Mike Whelan	415-571-2449
347	Oakland	2751 High Street	Brown & Caldwell	Brad Jones	213-486-0681
374	Oakland	6407 Telegraph Avenue	Pacific Env. Group	Mike Whelan	415-571-2449
601	San Leandro	712 Lewelling Blvd.	Emcon	Mike Whelan	415-571-2449
771	Livermore	899 Rincon Avenue	Emcon	Mike Whelan	415-571-2449
2035	Albany	1001 San Pablo Avenue	Emcon	Mike Whelan	415-571-2449
2107	Oakland	3310 Park Blvd.	Pacific Env. Group	Mike Whelan	415-571-2449
2111	San Leandro	1156 Davis Street	Emcon	Mike Whelan	415-571-2449
2112	Alameda	1260 Park Street	Pacific Env. Group	Mike Whelan	415-571-2449
2152	Castro Valley	22141 Center Street	Pacific Env. Group	Mike Whelan	415-571-2449
2162	San Leandro	15135 Hesperian Blvd.	Pacific Env. Group	Mike Whelan	415-571-2449
2169	Oakland	889 West Grand Avenue	Emcon	Mike Whelan	415-571-2449
2185	Oakland	9800 East 14th Street	Emcon	Mike Whelan	415-571-2449
4494	Oakland	566 Hagenberger Road	Pacific Env. Group	Mike Whelan	415-571-2449
4931	Oakland	731 West MacArthur Blvd.	Pacific Env. Group	Mike Whelan	415-571-2449
6002	Oakland	6235 Seminary Avenue	Emcon	Mike Whelan	415-571-2449
6041	Dublin	7249 Village Parkway	Emcon	Mike Whelan	415-571-2449
6113	Livermore	785 East Stanley Blvd.	Emcon	Mike Whelan	415-571-2449
6148	Oakland	5131 Shattuck Avenue.	Emcon	Mike Whelan	415-571-2449
9908	Oakland	8255 San Leandro Blvd	Brown & Caldwell	Brad Jones	213-486-0681

Your Emcon contact is Mr. Jay Johnson.

Your Pacific Environmental Group contact is Mr. Greg Barclay

Your Brown & Caldwell contact is Mr. Ron Zurlinden

## CONSULTANTS CONTACTS

Consultant Name	ARCO Program Manager (APM)	Technical Coordinator (TC)	Area	Administrative Coordinator (AC)
Brown & Caldwell	Mikk Anderson 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016	Ron Zurfinden 9616 micro Ave Sacramento, CA 95813-3449 (916) 444-0123 --- Fax (916) 856-5277	NW	Mat Quinn 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016
		Ron Halsey 16735 Von Karman, Suite 200 Irvine, CA 92714-4918 (714) 660-1070 --- Fax (714) 474-0940	SW	
		Mike Higman 9040 Frairs Rd, Suite 220 San Diego, CA 92108 (619) 528-9090 --- Fax (619) 528-9199	SW	
Delta	Jon Pesicka 27141 Aliso Creek Rd, Suite 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290	Todd Galati 3330 Data Dr, Suite 100 Rancho Cordova, CA 95670 (916) 638-2085 --- Fax (916) 638-8385	NW	Debbie Fluckiger 27141 Aliso Creek Rd, # 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290
		Jon Pesicka (714) 362-3077 --- Fax (714) 362-0290	SW	
Emcon	Jack Hardin 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526	Rob Dixon 15055 SW Sequoia Pkwy, Suite 140 Portland, OR 97224-7712 (503) 624-7200 Fax (503) 620-7658	NW	Jeanette Memeo 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526
		Jay Johnson 1433 N Ave Market Blvd. Sacramento, CA 95834-1943 (916) 928-3300 Fax (916) 928-3341	NW	

9/6/94

## CONSULTANTS CONTACTS

Consultant Name	ARCO Program Manager (APM)	Technical Coordinator (TC)	Area	Administrative Coordinator (AC)
Emcon	Jack Hardin	Ric Morgan 120 Columbia, Suite 500 Aliso Viejo, CA 92656 (714) 362-1130 Fax (714) 362-1137	SW	Jeanette Memeo
Pacific Enviro Group	Debra Moser 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500 Fax (408) 441-7539	Greg Barclay 3050 Fite Circle, Suite 101 Sacramento, CA 95827 (916) 361-8091 --- Fax (916) 361-8094	NW	Norma Gutierrez 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500
		Cleve Solomon 650 N Sierra Madre Villa, Suite 204 Pasadena, CA 91107 (818) 351-4814 -- Fax (818) 351-4822	SW	Fax (408) 441-7539
Seacor	David Childs 1913 Volcanic Dr. Benton, AR 72015-2161 (501) 776-3400 Fax (501) 776-3053	Jim Ritchie 90 New Montgomery St, Suite 620 San Francisco, CA 94015-4503 (415) 882-1548 -- Fax (415) 882-4406	NW	Cindy Malloy 1734 - 34th St Sacramento, CA 95816-7004 (916) 456-4333
		Kyle Emerson 1180 Nevada St, Suite 200 Redlands, CA 92374 (909) 335-6116 --- Fax (909) 335-6120	SW	Fax (916) 456-0110
		Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 --- Fax (805) 546-0583	SW	



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
3883	Susan Hugo	Station 6113	785 E. Stanley Blvd. Livermore 94550
3873	Susan Hugo	Station 771	899 Rincon Avenue Livermore 94550
1053	Eva Chu	Station 6041	7249 Village Parkway Dublin 94568
779	Amy Leech	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
4275	Scott Seery	Station 601	712 Lewelling Blvd. San Leandro 94579

July 29, 2005

**Alameda County**

**AUG 02 2005**

**Environmental Health**

Ms. Donna Drogas  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Second Quarter 2005 Status Report  
Atlantic Richfield Company Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38487024**

Dear Ms. Drogas:

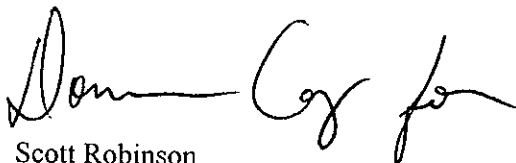
On behalf of Atlantic Richfield Company, a BP affiliated Company, URS Corporation (URS) is submitting the *Second Quarter 2005 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: Second Quarter 2005 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

Date: July 29, 2005  
Quarter: 2Q 05

### SECOND QUARTER 2005 STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38487024  
Primary Agency: Alameda County Environmental Health (ACEH)

#### WORK PERFORMED THIS QUARTER (Second – 2005):

1. No environmental work was conducted at the site during the second quarter 2005.
2. Prepared and submitted Second Quarter 2005 Status Report.
3. Requested an update on Case Closure Report submitted on November, 20, 1996.

#### WORK PROPOSED FOR NEXT QUARTER (Third – 2005):

1. No environmental work is expected for the site during the third quarter 2005.
2. Prepare and submit Third Quarter 2005 Status Report.

Alameda County

DEC 29 2004

December 28, 2004

Environmental Health

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Fourth Quarter 2004 Status Report  
Atlantic Richfield Company Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38486714**

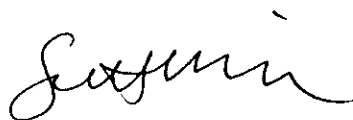
Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated Company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

Enclosure: Fourth Quarter 2004 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

Date: December 28, 2004Quarter: 4Q 04**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38486714  
Primary Agency: Alameda County Environmental Health (ACEH)

**WORK PERFORMED THIS QUARTER (Fourth – 2004):**

1. No environmental work was conducted at the site during the fourth quarter 2004.
2. Prepared and submitted fourth quarter 2004 status report.
3. Requested an update on Case Closure Report submitted on November, 20, 1996.

**WORK PROPOSED FOR NEXT QUARTER (First – 2005):**

1. No environmental work is expected for the site during the first quarter 2005.
2. Prepare and submit first quarter 2005 status report.

November 2, 2004

Mr. Robert Schultz  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Third Quarter 2004 Status Report  
ARCO Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38486714**

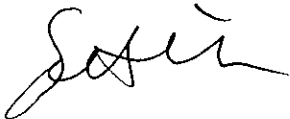
Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated Company, URS Corporation (URS) is submitting the *Third Quarter 2004 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: Third Quarter 2004 Status Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

Date: November 2, 2004  
Quarter: 3Q 04

**RM QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38486714  
Primary Agency: Alameda County Environmental Health (ACEH)

**WORK PERFORMED THIS QUARTER (Third - 2004):**

1. No environmental work was conducted at the site during the third quarter 2004.

**WORK PROPOSED FOR NEXT QUARTER (Fourth- 2004):**

1. Prepare and submit this third quarter 2004 status report.
2. No environmental work is expected for the site during the fourth quarter 2004.
3. Prepare and submit fourth quarter 2004 status report.

**DISCUSSION:**

A Case Closure Request was submitted on November 20, 1996.



June 18, 2004

Mr. Amir Gholami  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
JUN 23 2004  
Environmental Health

**Re: Second Quarter 2004 Status Report  
Atlantic Richfield Company Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38486714**

Dear Mr. Gholami:

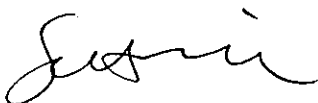
On behalf of Atlantic Richfield Company (RM)- a BP affiliated Company, URS Corporation (URS) is submitting the *Second Quarter 2004 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: Second Quarter 2004 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

Date: June 18, 2004Quarter: 2Q 04**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38486714  
Primary Agency: Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (Second – 2004):**

1. No environmental work was conducted at the site during the second quarter 2004.
2. Prepared and submitted second quarter 2004 status report.
3. Requested an update on Case Closure Report submitted on November, 20, 1996.

**WORK PROPOSED FOR NEXT QUARTER (Third – 2004):**

1. No environmental work is expected for the site during the third quarter 2004.
2. Prepare and submit third quarter 2004 status report.

**URS**

RO 44

March 2, 2004

Alameda County

MAR 10 2004

Environmental Health

Mr. Amir Gholami  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: First Quarter 2004 Status Report  
ARCO Service Station #2112  
1260 Park Street  
Alameda, California  
URS Project #38486714**

Dear Mr. Gholami:

On behalf of Atlantic Richfield Company (ARCO - a BP affiliated Company), URS Corporation (URS) is submitting the *First Quarter 2004 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: First Quarter 2004 Status Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

Date: March 2, 2004  
Quarter: 1Q 04

**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
ARCO Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38486714  
Primary Agency: Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (First – 2004):**

1. No environmental work was conducted at the site during the first quarter 2004.
2. Prepared and submitted first quarter 2004 status report.

**WORK PROPOSED FOR NEXT QUARTER (Second – 2004):**

1. No environmental work is expected for the site during the second quarter 2004.
2. Prepare and submit second quarter 2004 status report.

**URS**

RO 44

July 30, 2003

Mr. Amir Gholami  
Environmental Health Services  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Alameda County  
AUG 01 2003  
Environmental Health

**Re: Status of Case Closure Request for ARCO Service Station #2112, 1260 Park Avenue,  
Alameda, California 94501**

Dear Mr. Gholami:

On behalf of Atlantic Richfield Company (ARCO - an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is requesting additional information regarding the status of the case closure for Arco Service Station #2112. On May 2, 1997, Alameda County Health Care Services Agency (ACHCSA) issued a letter confirming receipt of the November 20, 1996 Case Closure Summary Report, submitted by Pacific Environmental Group, on behalf of ARCO. The ACHCSA letter stated "a case closure summary is being prepared for internal peer review process".

However, ARCO has not received further correspondence regarding the request for case closure. Any information regarding the status of the Case Closure for the Site would be greatly appreciated.

Should you have any questions or concerns, please contact me at (510) 874-3280

Sincerely,  
**URS CORPORATION**



Scott Robinson  
Project Manager



Robert Horwath, R.G.  
Portfolio Manager



Attachment: Alameda County Health Care Services Letter, May 2, 1997.

cc: Mr. Paul V. Supple, Environmental Business Manager, P.O. Box 6549, Moraga, CA 94549

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Director Bay Parkway, Suite 250

Alameda, CA 94502-6577

(510) 567-6700

(510) 567-9335 (FAX)

May 2, 1997

Alameda County

AUG 01 2003

Environmental Health

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

**RE: ARCO Service Station ( 2112) - 1260 Park Avenue, Alameda, CA 94501  
STID # 3629**

Dear Mr. Supple:

This letter serves to update you regarding the request for case closure for the above referenced site. Our office is currently reviewing the case file including the case closure summary prepared and submitted by Pacific Environmental Group, Inc.

The remedial systems ( groundwater and soil vapor extraction ) were shut off during the third quarter of 1995 with the approval of this agency. Verification of the groundwater conditions have been completed as of the last quarter of 1996. This office has no objection to the decommissioning of the remedial systems at the site.

A case closure summary is being prepared for internal peer review process.

If you have any questions or comments regarding this letter, please call me at (510) 567-6780.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo

Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director, Environmental Health  
Gordon Coleman, Chief, Environmental Protection Division  
Kevin Graves, San Francisco Bay RWQCB  
Shaw Gharakani / David Nanstad, PEG, 2025 Gateway Place, Suite 440, San Jose, CA 95110  
SH / files

**URS**

June 13, 2003

RO 44

Alameda County  
Environmental Health  
JUN 18 2003

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Second Quarter 2003 Status Report  
ARCO Service Station # 2112  
1260 Park Street  
Alameda, California  
URS Project #38486163**

Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Second Quarter 2003 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: Second Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS Corporation  
500 12th Street, Suite 200  
Oakland, CA 94607-4014  
Tel: 510.893.3600  
Fax: 510.874.3268

Date: June 13, 2003  
Quarter: 2Q 03

**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
Atlantic Richfield Co. Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson / (510) 874-3280  
Consultant Project No.: 38486163  
Primary Agency: Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (Second – 2003):**

1. No environmental work was conducted at the site during the second quarter 2003.
2. Prepared and submitted second quarter 2003 status report.

**WORK PROPOSED FOR NEXT QUARTER (Third – 2003):**

1. No environmental work is expected for the site during the second quarter 2003.
2. Prepare and submit third quarter 2003 status report.

Alameda County  
JUN 18 2003  
Environmental Health



~~RO 44~~

RO 44

March 27, 2003

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
APR 01 2003  
Environmental Health

**Re: First Quarter 2003 Status Report  
ARCO Service Station # 2112  
1260 Park Street  
Alameda, California  
URS Project #38486163**

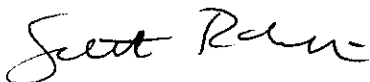
Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *First Quarter 2003 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: First Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

Date: March 27, 2003

Quarter: 1Q 03

### ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
Atlantic Richfield Co. Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson / (510) 874-3280  
Consultant Project No.: 38486163  
Primary Agency: Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER (First - 2003):

1. No environmental work was conducted at the site during the first quarter 2003.
2. Prepared and submitted fourth quarter 2002 status report.
3. Prepared and submitted first quarter 2003 status report.

#### WORK PROPOSED FOR NEXT QUARTER (Second - 2003):

1. No environmental work is expected for the site during the second quarter 2003.
2. Prepare second quarter 2002 status report.

**URS**

R044  
GHOLAMI

February 4, 2003

✓ R044

NEW  
3/26/03  
R044

Alameda County  
FEB 11 2003  
Environmental Health

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Fourth Quarter 2002 Status Report  
ARCO Service Station # 2112  
1260 Park Street  
Alameda, California  
URS Project #38465920**

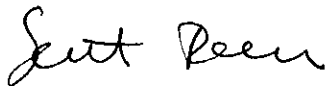
Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager

Enclosure: Fourth Quarter 2002 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS Corporation  
500 12th Street, Suite 200  
Oakland, CA 94607-4014  
Tel: 510.893.3600  
Fax: 510.874.3268

Date: February 4, 2003Quarter: 4Q02**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Former Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
Atlantic Richfield Co. Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson / (510) 874-3280  
Consultant Project No.: 38465920  
Primary Agency: Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (Fourth – 2002):**

1. No environmental work was conducted at the site during the fourth quarter 2002
2. Prepared third quarter 2002 status report

**WORK PROPOSED FOR NEXT QUARTER (First – 2003):**

1. No environmental work is expected for the site during the first quarter 2003
2. Prepare fourth quarter 2002 status report

Review  
3/18/03  
(Signature)

Alameda County

FEB 03 2003

Environmental Health

JR044

Date: January 31, 2003

Quarter: 3Q02

**ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT**

Former Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
 Atlantic Richfield Co. Environmental Engineer: Paul Supple  
 Consulting Co./Contact Person: URS Corporation / Scott Robinson / (510) 874-3280  
 Consultant Project No.: 38465920  
 Primary Agency: Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (Third - 2002):**

1. No environmental work was conducted at the site during the third quarter 2002
2. Prepared second quarter 2002 status report

**WORK PROPOSED FOR NEXT QUARTER (Fourth - 2002):**

1. No environmental work is expected for the site during the fourth quarter 2002
2. Prepare third quarter 2002 status report



January 31, 2003

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
FEB 03 2003  
Environmental Health

**Re: Third Quarter 2002 Status Report  
ARCO Service Station # 2112  
1260 Park Street  
Alameda, California  
URS Project #38465920**

Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2002 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

Enclosure: Third Quarter 2002 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

November 1, 2002

Ms. Susan Hugo  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, California 94502

Re: **Quarterly Status Report  
Second Quarter 2002**  
ARCO Service Station No. 2112  
1260 Park Street  
Alameda, CA  
URS Project # 38465920

**Alameda County**  
**NOV 06 2002**  
**Environmental Health**

Dear Mr. Supple:

On behalf of ARCO (affiliated to Group Environmental Management Company), URS Corporation (URS) is pleased to submit the Quarterly Status Report. This report presents the second quarter 2002 status report of ARCO Service Station No. 2112 located at 1260 Park Street, Alameda, CA.

Please call us at 510-893-3600 if you have questions.

Sincerely,

**URS CORPORATION**



Scott Robinson  
Project Manager



Amy Beckenridge, P.E.  
Portfolio Manager

Attachments: Quarterly Status Report, Second Quarter 2002

cc: Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570  
Mr. Chuck Headlee - Regional Water Quality Control Board, San Francisco Bay Region



Date: November 1, 2002

**ARCO SECOND QUARTER 2002 STATUS REPORT**

Station No.: 2112 Address: 1260 Park Street, Alameda, CA  
ARCO Environmental Engineer/Phone No.: Paul Supple / (925) 299-8891  
Consulting Co./Contact Person/Phone No.: URS Corporation / Scott Robinson / (510) 893-3600  
Consultant Project No.: 38465920  
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

**WORK PERFORMED THIS QUARTER (Second – 2002)**

1. No environmental work was conducted at the site during the second quarter 2002.

**WORK PROPOSED FOR NEXT QUARTER (Third – 2002)**

1. No environmental work is expected for the site during the third quarter 2002.
2. URS Corporation took over groundwater monitoring activities from Delta Environmental Consultants, Inc.





MAR 29 2002

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

2044

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

Date: March 27, 2002

### ARCO FOURTH QUARTER 2001 STATUS REPORT

Station No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, CA  
ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891  
Consulting Co./Contact Person Delta Environmental Consultants, Inc.  
Steven W. Meeks, P.E.  
Consultant Project No.: D000-307  
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER

1. Prepared and submitted quarterly status report for third quarter 2001.
2. No environmental work was conducted at the site during the fourth quarter 2001.

#### WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly status report for the fourth quarter 2001.
2. No environmental work is scheduled for the first quarter 2002.

#### DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

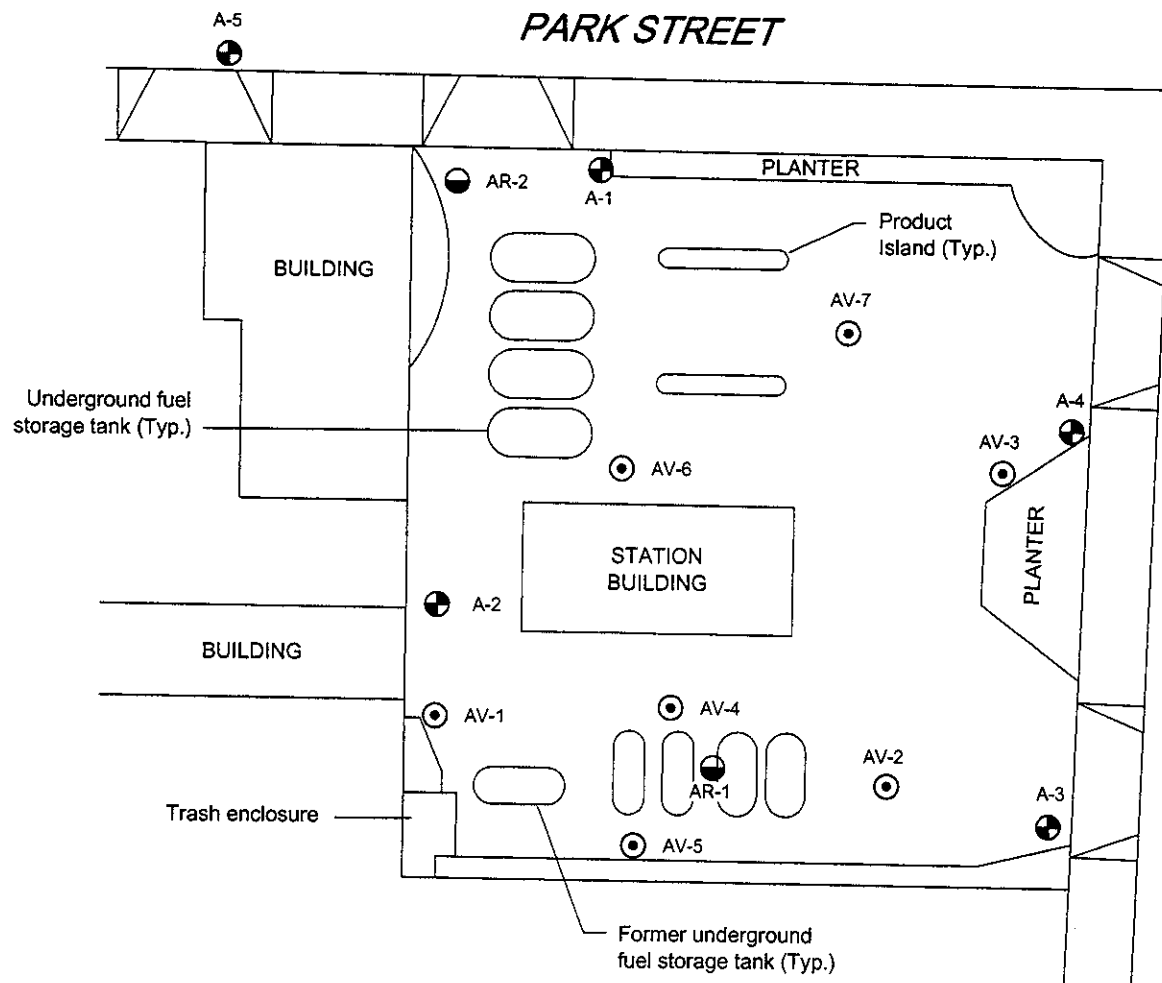
Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

  
Steven W. Meeks, P.E.  
Project Manager  
California Registered Civil Engineer No. C057461

SWM (QSR006.307.doc)  
Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency  
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region



LEGEND:

- A-1 MONITORING WELL LOCATION
- AR-1 GROUND WATER EXTRACTION WELL LOCATION
- AV-1 VAPOR EXTRACTION WELL LOCATION

FIGURE 1  
SITE MAP

ARCO SERVICE STATION NO. 2112  
1260 PARK STREET  
ALAMEDA, CALIFORNIA

PROJECT NO. D000-307	DRAWN BY TLA 12/04/00
FILE NO. 2112-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY





SEP 25 2001

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

R044

Date: September 21, 2001

### ARCO SECOND QUARTER 2001 STATUS REPORT

Station No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, CA  
ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891  
Consulting Co./Contact Person Delta Environmental Consultants, Inc.  
Steven W. Meeks, P.E.  
Consultant Project No.: D000-307  
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER

1. Prepared and submitted quarterly status report for second quarter 2001.
2. No environmental work was conducted at the site during the second quarter 2001.

#### WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly status report for the second quarter 2001.
2. Perform soil sampling activities during product line and dispenser upgrade activities scheduled for third quarter 2001.

#### DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

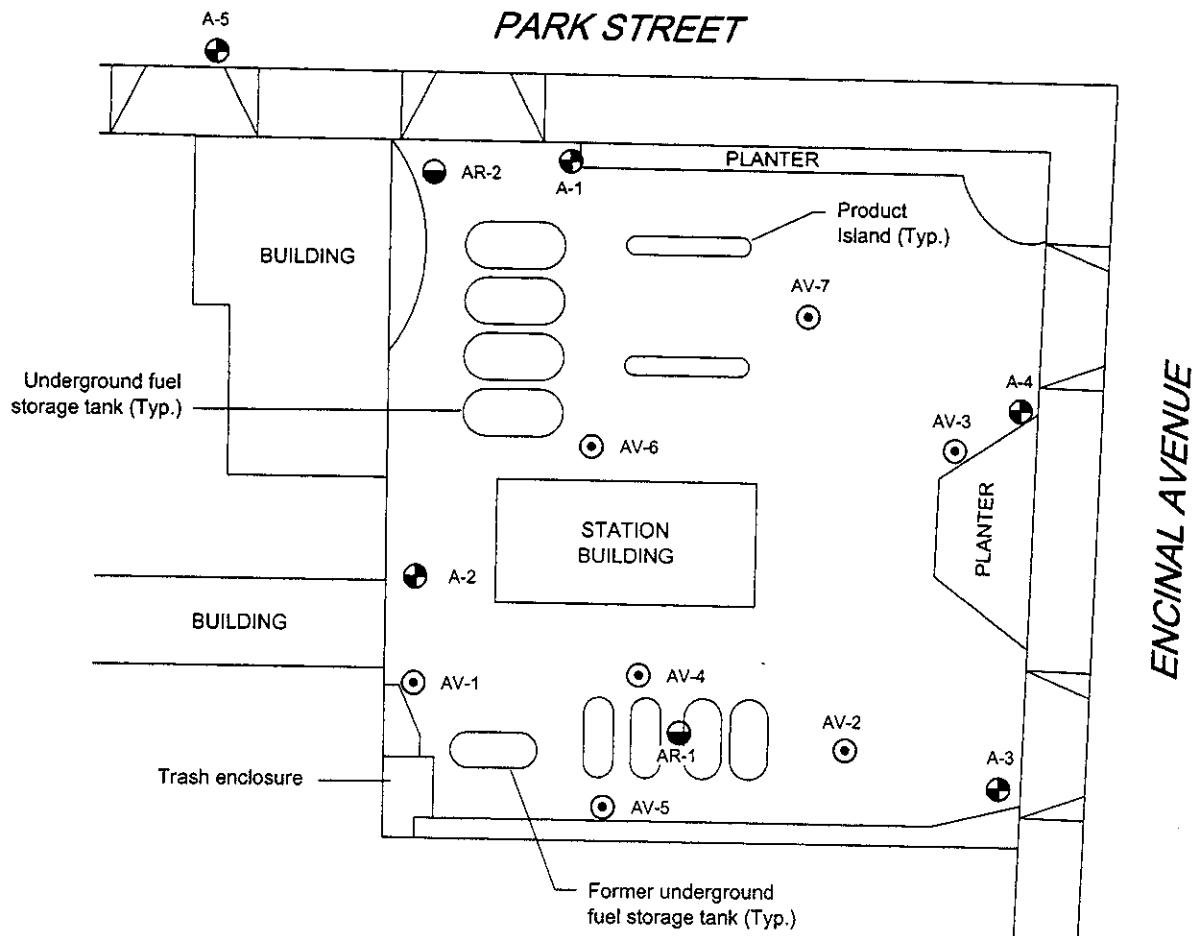
**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

  
Steven W. Meeks, P.E.  
Project Manager  
California Registered Civil Engineer No. C057461

SWM (QSR004.307.doc)  
Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency  
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region

Providing a Competitive Edge



LEGEND:

- ⊕ A-1 MONITORING WELL LOCATION
- AR-1 GROUND WATER EXTRACTION WELL LOCATION
- ⊙ AV-1 VAPOR EXTRACTION WELL LOCATION

FIGURE 1  
 SITE MAP  
 ARCO SERVICE STATION NO. 2112  
 1260 PARK STREET  
 ALAMEDA, CALIFORNIA

PROJECT NO. D000-307	DRAWN BY TLA 12/04/00
FILE NO. 2112-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY





JUL 03 2001

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

R044

Date: June 29, 2001

### ARCO FIRST QUARTER 2001 STATUS REPORT

Station No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, CA  
ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891  
Consulting Co./Contact Person Delta Environmental Consultants, Inc.  
Steven W. Meeks, P.E.  
Consultant Project No.: D000-307  
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER

1. Prepared and submitted quarterly status report for fourth quarter 2000.
2. No environmental work was conducted at the site during the first quarter 2001.

#### WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly status report for the second quarter 2000.
2. No environmental work is scheduled at the site during the second quarter 2001.


#### DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

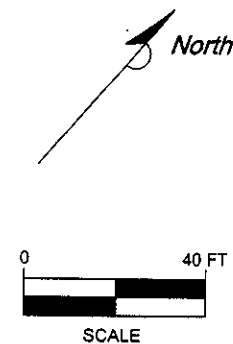
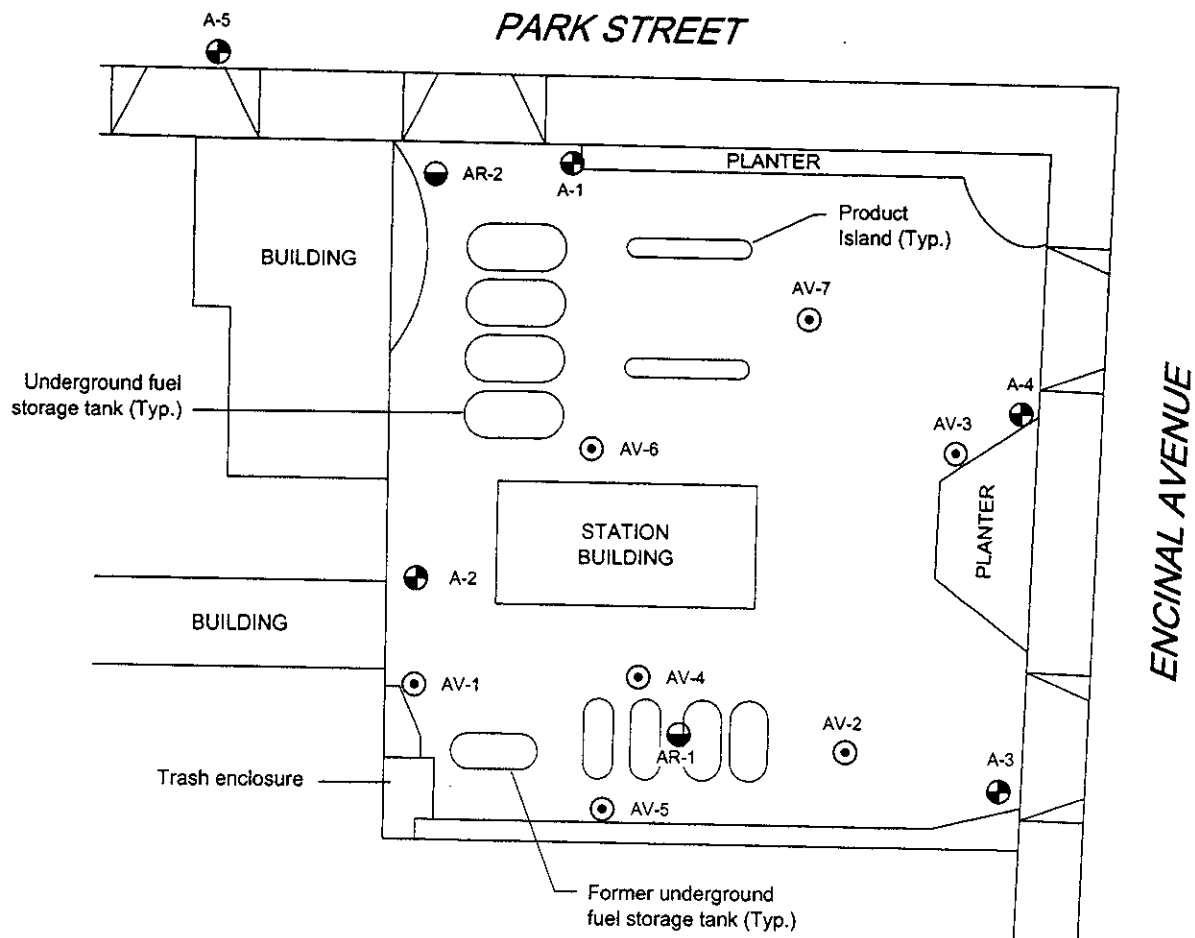
  
Steven W. Meeks, P.E.  
Project Manager  
California Registered Civil Engineer No. C057461

SWM (QSR003.307.doc)  
Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency  
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region

Providing a Competitive Edge

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LEGEND:

- ⊕ A-1 MONITORING WELL LOCATION
- AR-1 GROUND WATER EXTRACTION WELL LOCATION
- ⊙ AV-1 VAPOR EXTRACTION WELL LOCATION

FIGURE 1  
SITE MAP  
ARCO SERVICE STATION NO. 2112  
1260 PARK STREET  
ALAMEDA, CALIFORNIA

PROJECT NO. D000-307	DRAWN BY TLA 12/04/00
FILE NO. 2112-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY





2044

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

Date: March 29, 2001

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

### ARCO FOURTH QUARTER 2000 STATUS REPORT

Station No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, CA  
ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891  
Consulting Co./Contact Person Delta Environmental Consultants, Inc.  
Steven W. Meeks, P.E.  
Consultant Project No.: D000-307  
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER

1. Prepared and submitted quarterly status report for second and third quarters 2000.
2. No environmental work was conducted at the site during the fourth quarter 2000.

#### WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly status report for the first quarter 2000.
2. No environmental work is scheduled at the site during the first quarter 2001.

#### DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

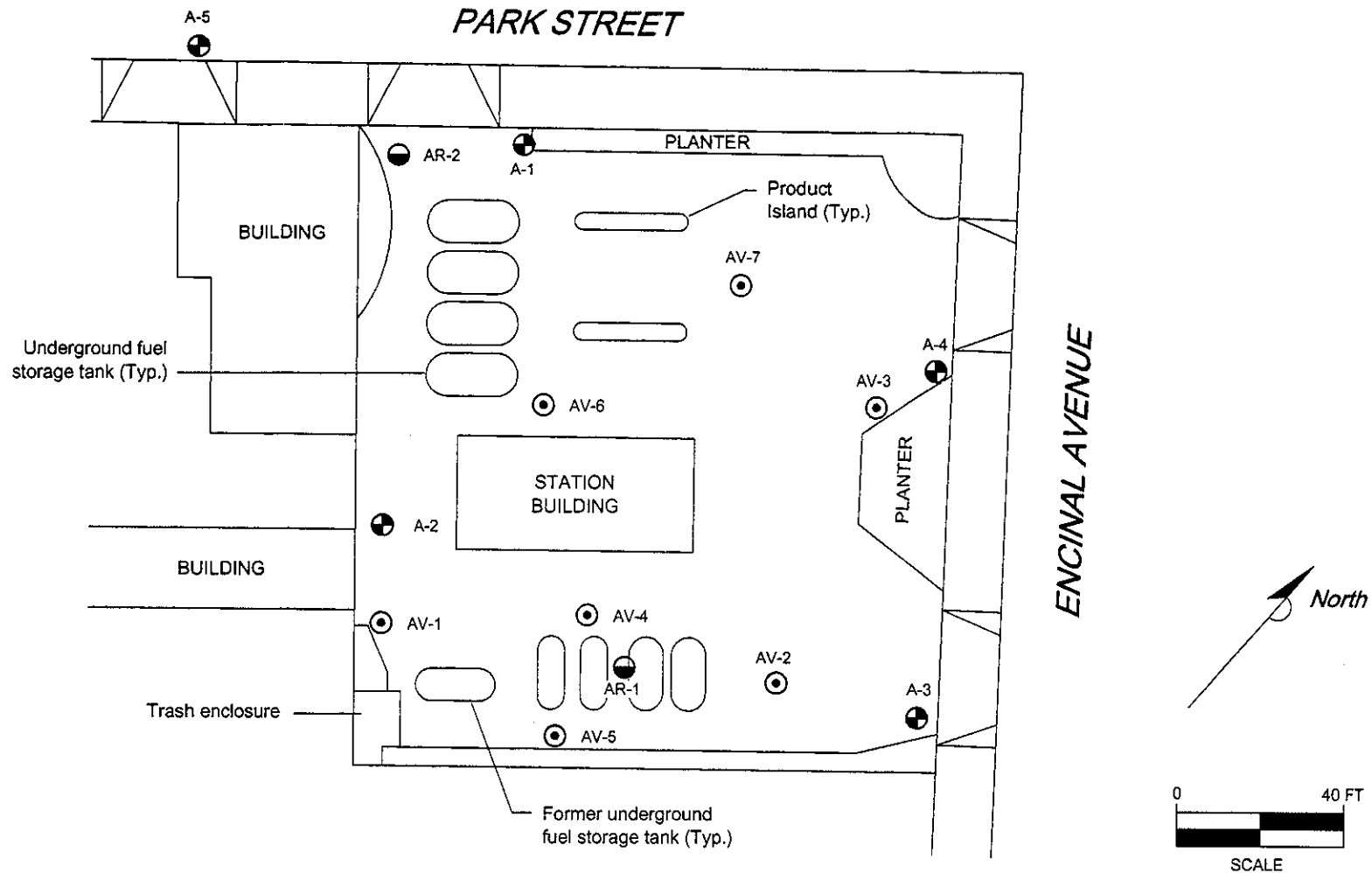
  
Steven W. Meeks, P.E.  
Project Manager  
California Registered Civil Engineer No. C057461

SWM (QSR002.307.doc)  
Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency  
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region

Providing a Competitive Edge

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LEGEND:

- A-1 MONITORING WELL LOCATION
- AR-1 GROUND WATER EXTRACTION WELL LOCATION
- AV-1 VAPOR EXTRACTION WELL LOCATION

**FIGURE 1  
SITE MAP**

**ARCO SERVICE STATION NO. 2112  
1260 PARK STREET  
ALAMEDA, CALIFORNIA**

PROJECT NO. D000-307	DRAWN BY TLA 12/04/00
FILE NO. 2112-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY



**Delta**  
Environmental  
Consultants, Inc.





R044

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8885

DELTA ENVIRONMENTAL  
PROTECTION  
00 DEC 04 2000  
PH 3:52

Date: December 4, 2000

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

**ARCO SECOND/THIRD QUARTER 2000 STATUS REPORT**

Station No.:	<u>2112</u>	Address:	<u>1260 Park Street at Encinal Avenue, Alameda, CA</u>
ARCO Environmental Engineer/Phone No.:	<u>Paul Supple 925-299-8891</u>	Consulting Co./Contact Person	<u>Delta Environmental Consultants, Inc. Steven W. Meeks, P.E.</u>
Consultant Project No.:	<u>D000-307</u>	Primary Agency/Regulatory ID No.	<u>Alameda County Health Care Services Agency</u>

**WORK PERFORMED THIS QUARTER**

1. Prepared and submitted quarterly status report for second and third quarters 2000.
2. No environmental work was conducted at the site during the second and third quarters 2000.

**WORK PROPOSED FOR NEXT QUARTER**

1. Prepare and submit quarterly status report for the fourth quarter 2000.
2. No environmental work is scheduled at the site during the first quarter 2001.

**DISCUSSION:**

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

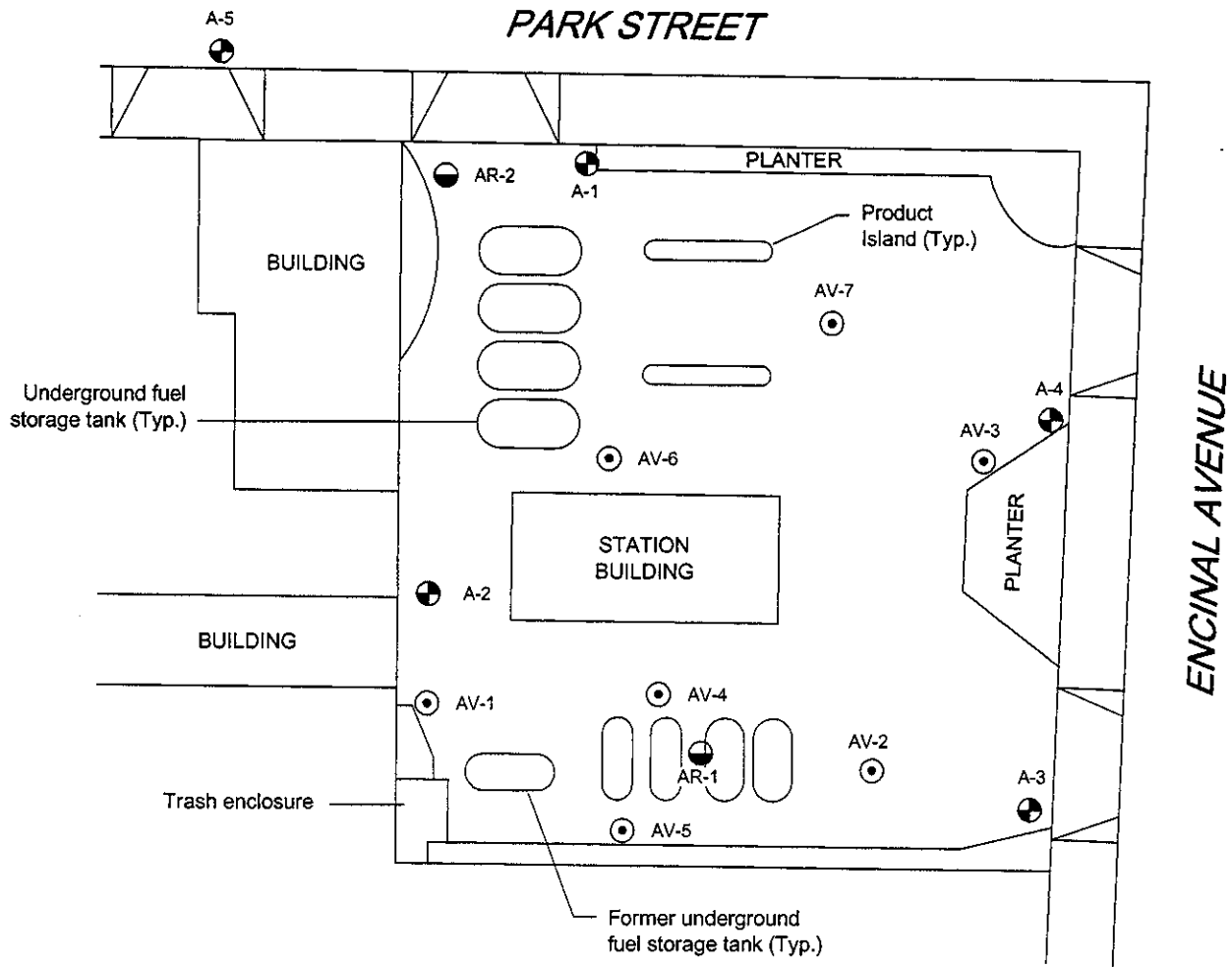
**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

Steven W. Meeks, P.E.  
Project Manager  
California Registered Civil Engineer No. C057461

SWM (QSR001.307.doc)  
Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency  
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region

Providing a Competitive Edge




LEGEND:

- A-1 MONITORING WELL LOCATION
- AR-1 GROUND WATER EXTRACTION WELL LOCATION
- AV-1 VAPOR EXTRACTION WELL LOCATION

**FIGURE 1  
SITE MAP**

ARCO SERVICE STATION NO. 2112  
1260 PARK STREET  
ALAMEDA, CALIFORNIA

PROJECT NO. D000-307	DRAWN BY TLA 12/04/00
FILE NO. 2112-1	PREPARED BY TLA
REVISION NO. 1	REVIEWED BY



**Delta**  
Environmental  
Consultants, Inc.



ENVIRONMENTAL  
PROTECTION

00 FEB 23 PM 3: 20

2201 Broadway, Suite 101  
Oakland, CA 94612-3023  
Tel. 510.740.5800  
Fax. 510.663.3315

February 18, 2000  
Project 791798

R044

Mr. Paul Supple  
ARCO Products Company  
PO Box 6549  
Moraga, California 94570

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, California  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: Pinnacle Environmental Solutions/ Glen VanderVeen  
Consultant Project No.: 791798  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency (ACHCSA)

#### WORK PERFORMED THIS QUARTER (FOURTH - 1999):

1. Prepared and submitted quarterly status report for third quarter 1999.
2. No environmental work was conducted at the site during the fourth quarter 1999.

#### WORK PROPOSED FOR NEXT QUARTER (FIRST - 2000):

1. Prepare and submit quarterly status report for fourth quarter 1999.
2. No environmental work is scheduled at the site during the first quarter 2000.

#### DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.

Mr. Paul Supple  
February 18, 2000  
Page 2

Project 791798

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

Sincerely,

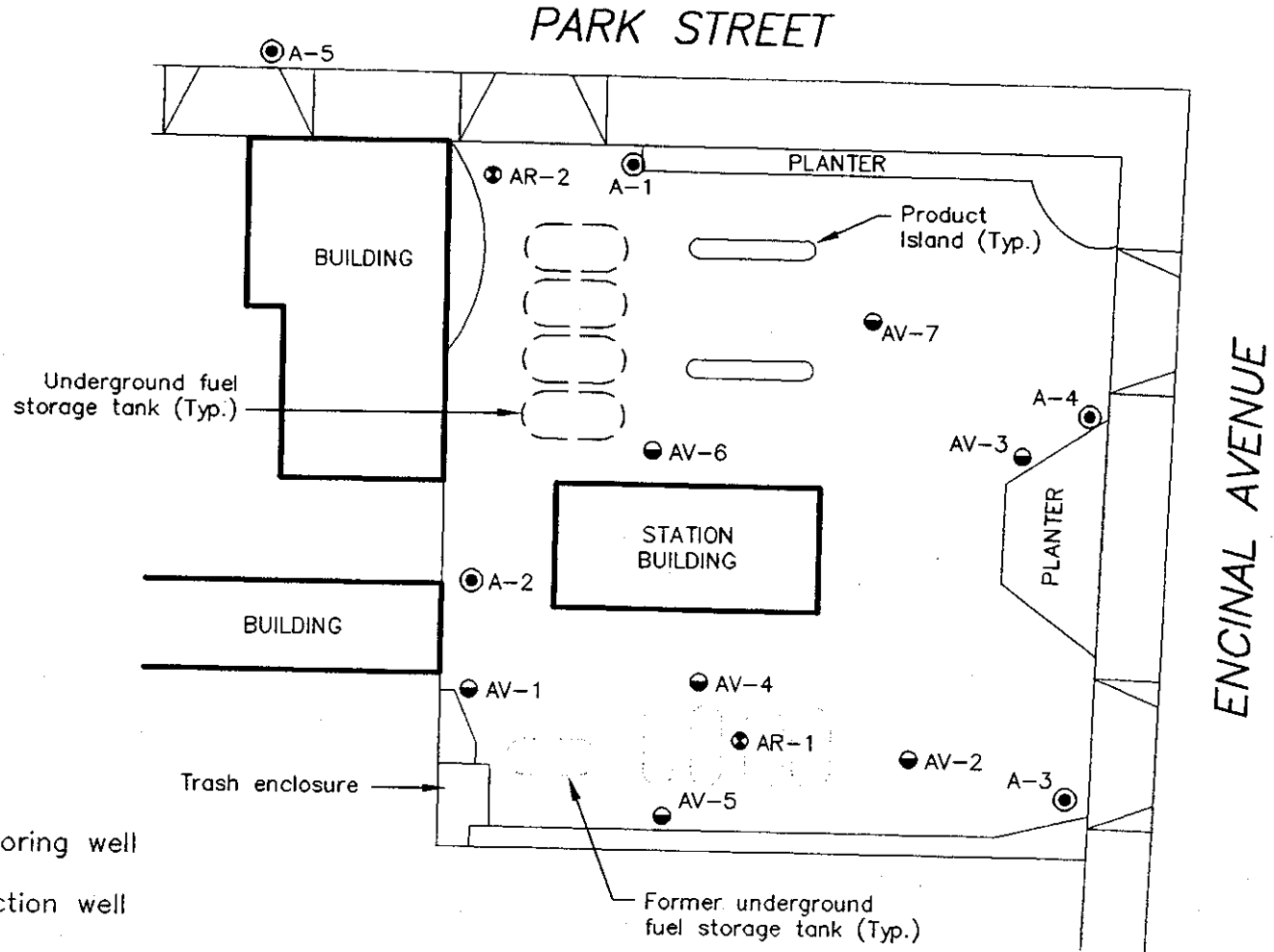
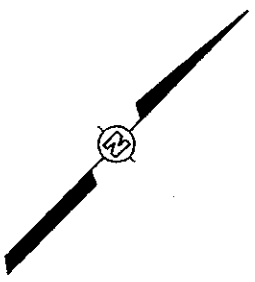
Pinnacle



*GV* Glen VanderVeen  
Project Manager

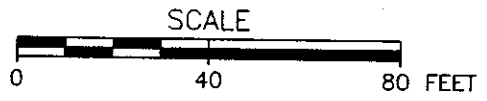
Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Chuck Headlee, Regional Water Quality Control Board - S.F. Bay Region



**EXPLANATION**

- Groundwater monitoring well
- ⊕ Groundwater extraction well
- Soil vapor well



	ARCO PRODUCTS COMPANY SERVICE STATION 2112
	<p><b>FIGURE 1</b> <b>SITE PLAN</b></p> <p>1260 PARK STREET ALAMEDA, CALIFORNIA</p>



2201 Broadway, Suite 101  
Oakland, CA 94612-3023  
Tel. 510.740.5800  
Fax. 510.663.3315

June 9, 2000  
Project 803912

Mr. Paul Supple  
ARCO Products Company  
PO Box 6549  
Moraga, California 94570

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, California  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: IT Corporation/Stephen Lofholm  
Consultant Project No.: 803912  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency (ACHCSA)

#### WORK PERFORMED THIS QUARTER (FIRST - 2000):

1. Prepared and submitted quarterly status report for fourth quarter 1999.
2. No environmental work was conducted at the site during the first quarter 2000.

#### WORK PROPOSED FOR NEXT QUARTER (SECOND - 2000):

1. Prepare and submit quarterly status report for first quarter 2000.
2. No environmental work is scheduled at the site during the second quarter 2000.

#### DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- ARCO will transfer this project to another consultant. The new consultant will begin providing services during the second quarter 2000.

Mr. Paul Supple  
June 9, 2000  
Page 2

Project 803912

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

Sincerely,

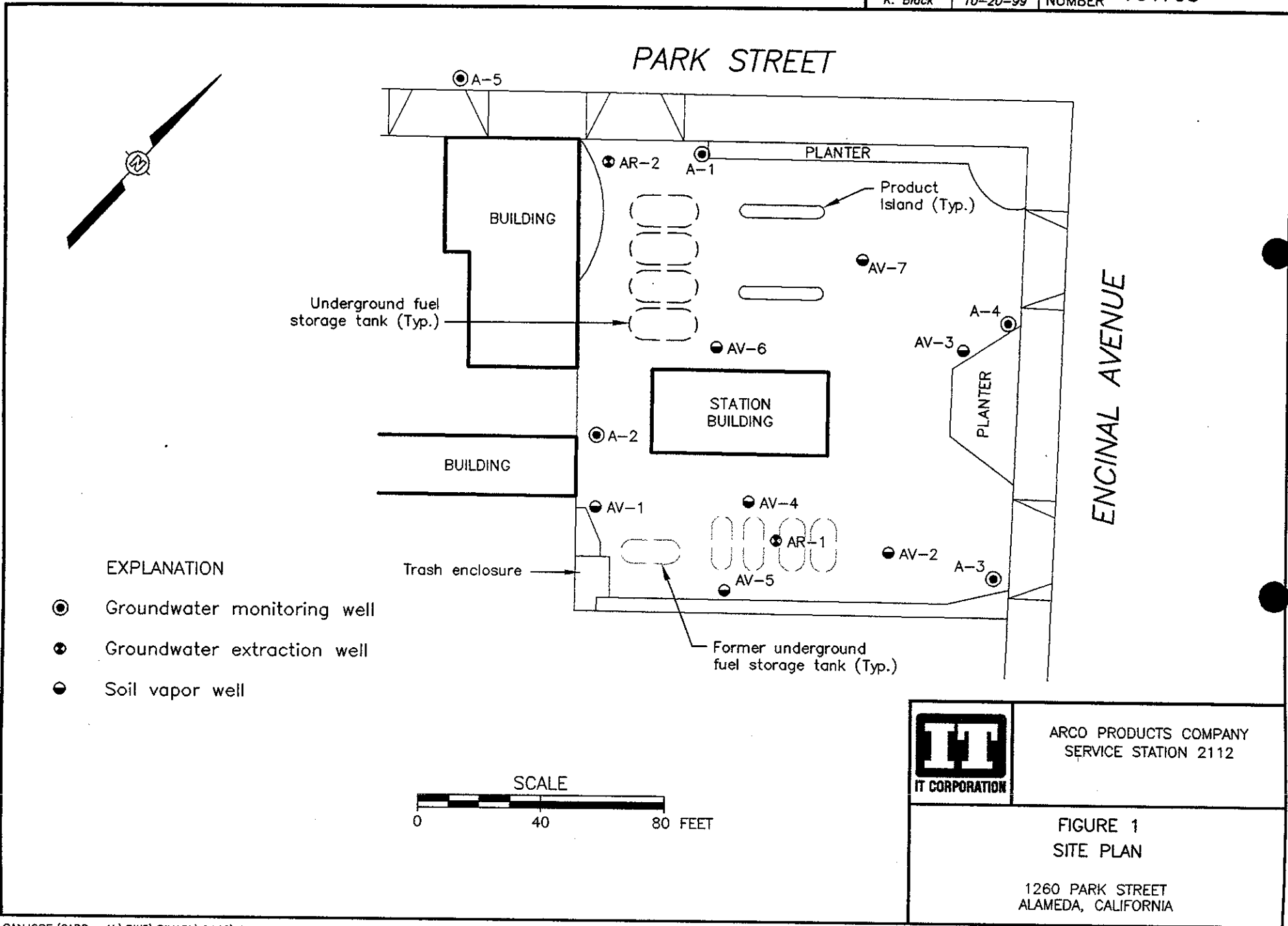
IT Corporation



Stephen Lofholm, R.G. 4793  
Technical Coordinator

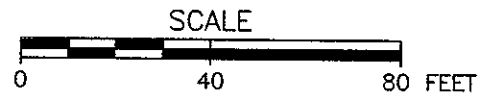
Attachment: Figure 1 - Site Plan


cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Chuck Headlee, Regional Water Quality Control Board - S.F. Bay Region



EXPLANATION

- ⊙ Groundwater monitoring well
- ⊕ Groundwater extraction well
- Soil vapor well



	ARCO PRODUCTS COMPANY SERVICE STATION 2112
	<p>FIGURE 1 SITE PLAN</p> <p>1260 PARK STREET ALAMEDA, CALIFORNIA</p>





2044

April 22, 1999  
Project 20805-209.002

Mr. Paul Supple  
ARCO Products Company  
PO Box 6549  
Moraga, California 94570

99 APR 23 PM 1:03  
ENVIRONMENTAL  
PROTECTION

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, California  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: Pinnacle Environmental Solutions/ Glen VanderVeen  
Consultant Project No.: 20805-209.002  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency (ACHCSA)

#### WORK PERFORMED THIS QUARTER (FIRST - 1999):

1. Prepared and submitted quarterly status report for fourth quarter 1998.
2. No environmental work was conducted at the site during the first quarter 1999.

#### WORK PROPOSED FOR NEXT QUARTER (SECOND - 1999):

1. Prepare and submit quarterly status report for first quarter 1999.
2. No environmental work is scheduled at the site during the second quarter 1999.

#### DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.




Mr. Paul Supple  
April 22, 1999  
Page 2

Project 20805-209.002

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

Sincerely,

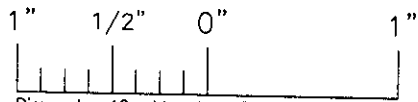
Pinnacle



Glen VanderVeen  
Project Manager

Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region

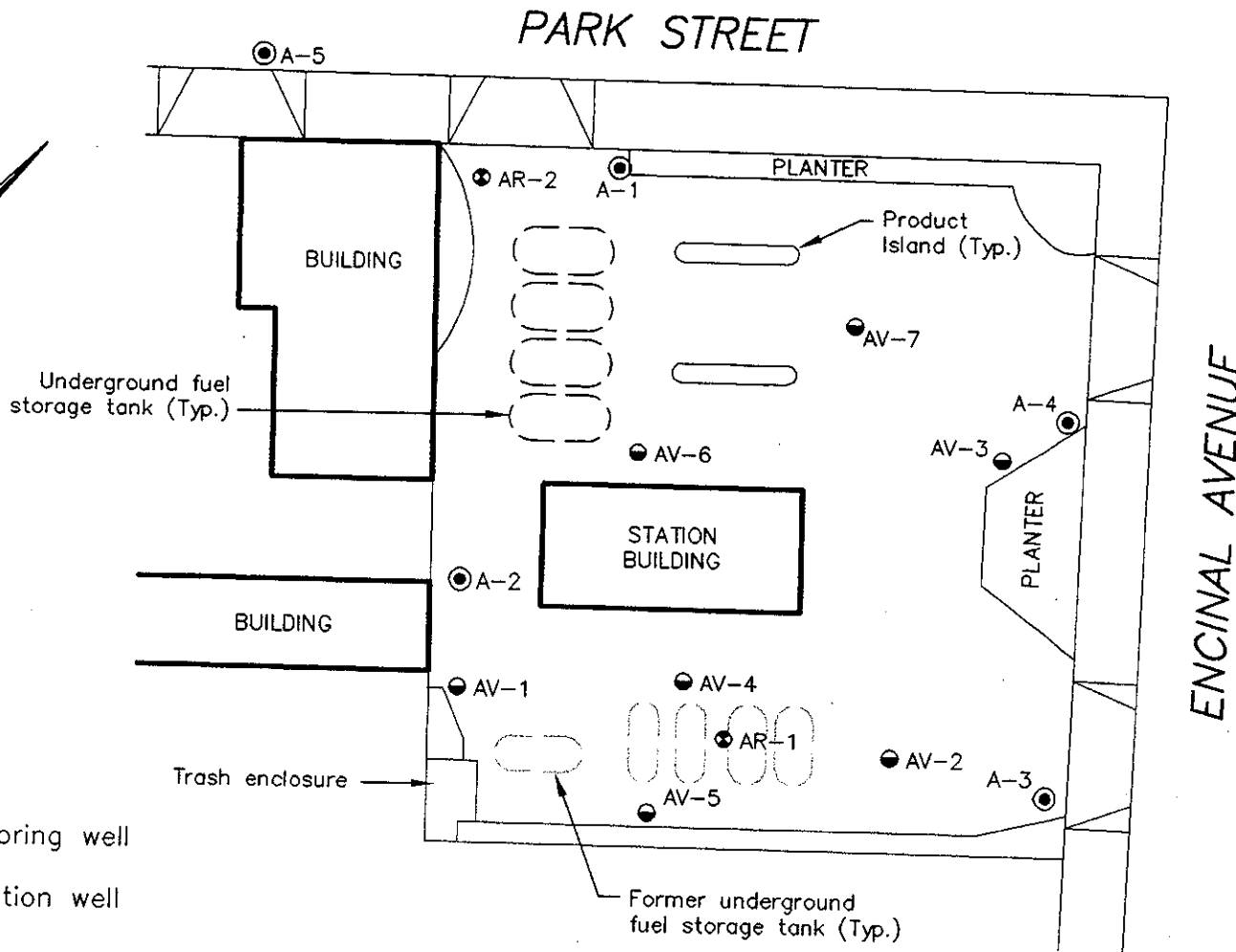
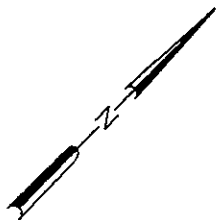


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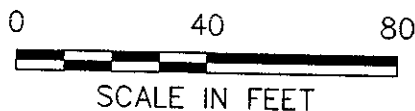


EXPLANATION

- ⊙ Groundwater monitoring well
- ⊕ Groundwater extraction well
- Soil vapor well

*Pinnacle*

ENVIRONMENTAL SOLUTIONS  
A DIVISION OF EMCON



DATE AUG. 1998  
DWN KK  
APP \_\_\_\_\_  
REV \_\_\_\_\_  
PROJECT NO.  
20805-209.001

**FIGURE 1**  
ARCO PRODUCTS COMPANY  
SERVICE STATION 2112, 1260 PARK STREET  
ALAMEDA, CALIFORNIA

**SITE PLAN**



98 NOV 20 PM 3: 10

November 19, 1998

2044  
Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, California 94570

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, California  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: Pinnacle Environmental Solutions/ Glen VanderVeen  
Consultant Project No.: 20805-209.001  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER (THIRD - 1998):

1. Prepared and submitted quarterly status report for second quarter 1998.
2. No environmental work was conducted at the site during the third quarter 1998.

#### WORK PROPOSED FOR NEXT QUARTER (FOURTH - 1998):

1. Prepare and submit quarterly status report for third quarter 1998.
2. No environmental work is scheduled at the site for the fourth quarter 1998.

#### DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.



Mr. Paul Supple  
November 19, 1998  
Page 2

Project 20805-209.001

Please call if you have questions.

Sincerely,

Pinnacle

*Glen VanderVeen for*

Glen VanderVeen  
Project Manager

Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region

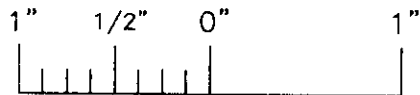
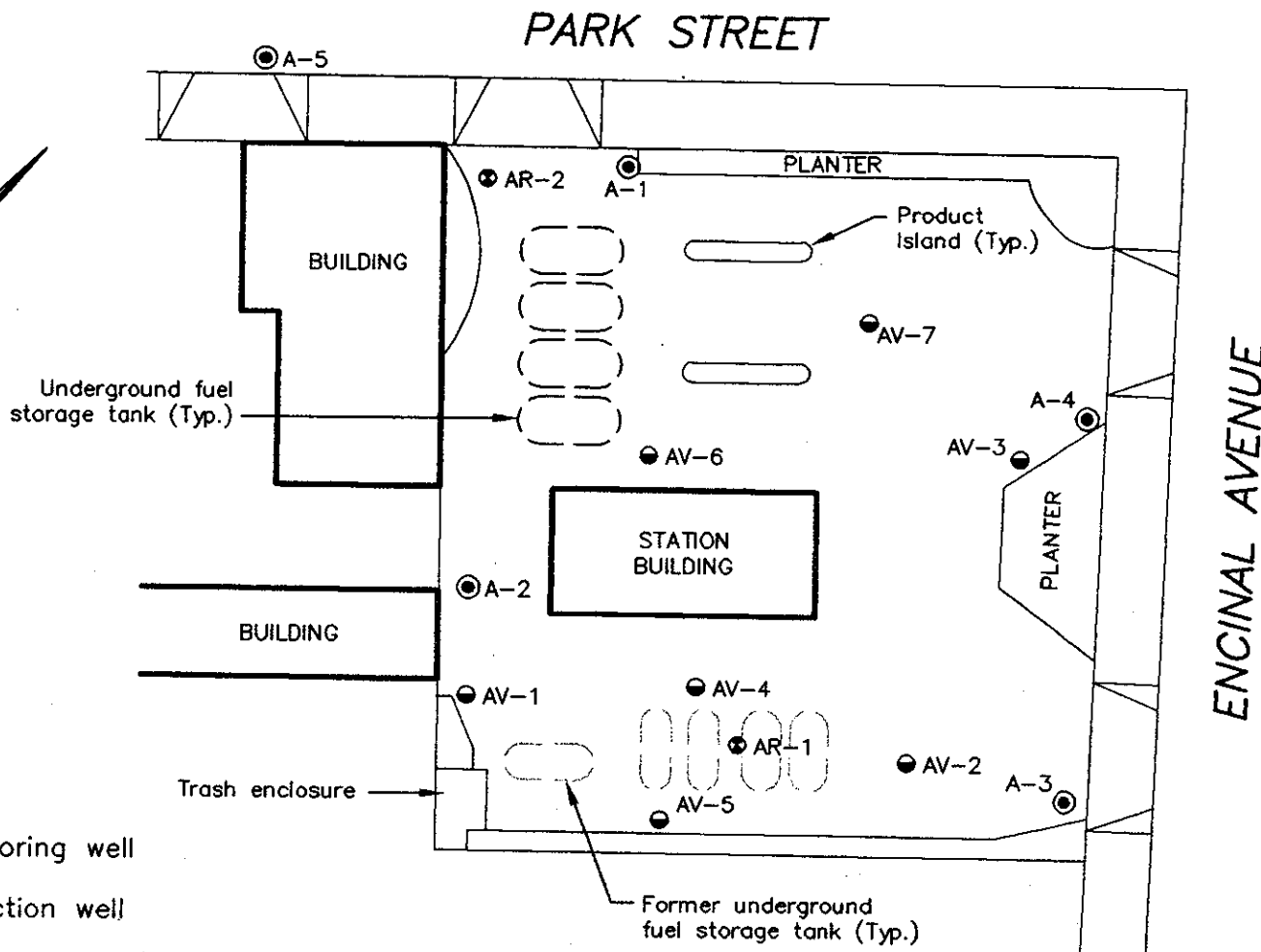
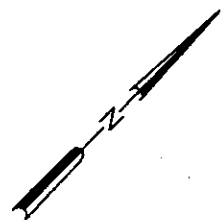


IMAGE Files: <No Images>

Dimscale: 40 Ltscale: 40 Plotscale: 1

XREF Files: <No Xrefs>

SANJOSE/CADD: N:\DWG\PINACL\2112\2112SP.DWG Thu, 08/Oct/98 05:41pm kblock

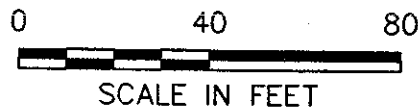


**EXPLANATION**

- ⊙ Groundwater monitoring well
- Groundwater extraction well
- Soil vapor well

*Pinnacle*

**ENVIRONMENTAL SOLUTIONS  
A DIVISION OF EMCON**



DATE AUG. 1998  
DWN KK  
APP \_\_\_\_\_  
REV \_\_\_\_\_  
PROJECT NO.  
20805-209.001

**FIGURE 1**  
ARCO PRODUCTS COMPANY  
SERVICE STATION 2112, 1260 PARK STREET  
ALAMEDA, CALIFORNIA

**SITE PLAN**



ENVIRONMENTAL  
PROTECTION

2944

98 OCT 23 ~~October 21~~, 1998

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, California 94570

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda, California  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: Pinnacle Environmental Solutions/ Glen VanderVeen  
Consultant Project No.: 20805-209.001  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER (Second - 1998):

1. Prepared and submitted quarterly status report for first quarter 1998.
2. No environmental work was conducted at the site during this quarter.

#### WORK PROPOSED FOR NEXT QUARTER (Third - 1998):

1. Prepare and submit quarterly status report for second quarter 1998.
2. No environmental work is scheduled at the site for the third quarter 1998.
3. Pursue case closure for the site.

#### DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.




Mr. Paul Supple  
October 21, 1998  
Page 2

Please call if you have questions.

Sincerely,

Pinnacle



Glen VanderVeen  
Project Manager

Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region



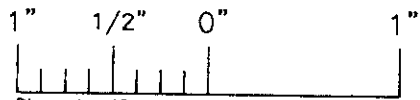
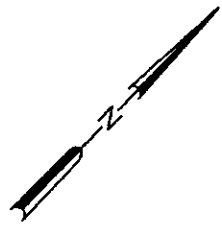
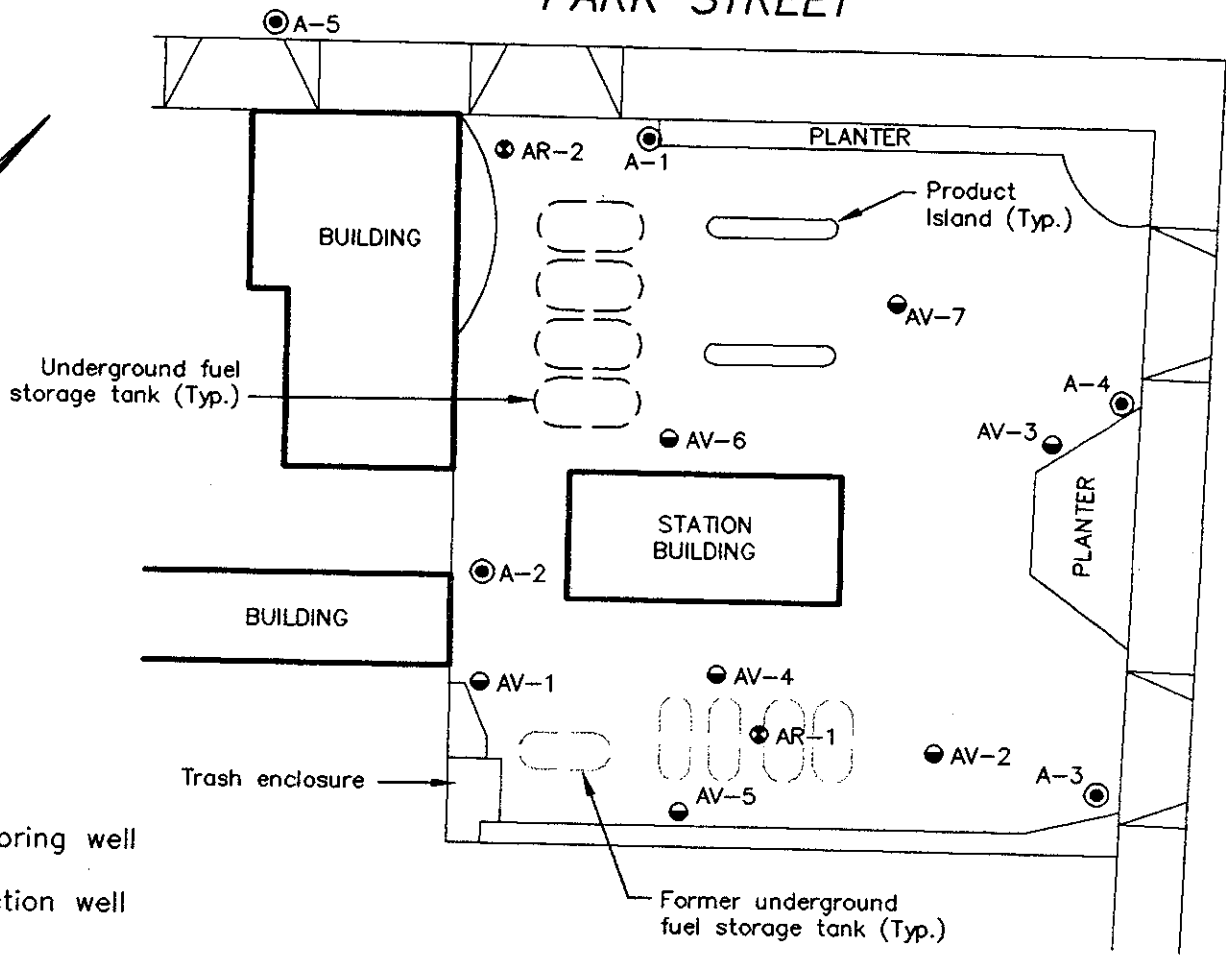


IMAGE Files: <No Images>  
 Dimscale: 40 Ltscale: 40 Pltscale: 1 XREF Files: <No Xrefs>  
 SANJOSE/CADD: N:\DWG\PINACL\2112\2112SP.DWG Thu. 08/Oct/98 05:41pm kblack



PARK STREET

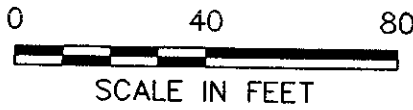
ENCINAL AVENUE



EXPLANATION

- ⊙ Groundwater monitoring well
- ⊕ Groundwater extraction well
- Soil vapor well

**Pinnacle**  
 ENVIRONMENTAL SOLUTIONS  
 A DIVISION OF EMCON



DATE	AUG. 1998
DWN	KK
APP	
REV	
PROJECT NO.	20805-209.001

**FIGURE 1**  
 ARCO PRODUCTS COMPANY  
 SERVICE STATION 2112, 1260 PARK STREET  
 ALAMEDA, CALIFORNIA  
**SITE PLAN**



2044

September 15, 1998

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, California 94570

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street, Alameda, California  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: Pinnacle Environmental Solutions/ Glen VanderVeen  
Consultant Project No.: 20805-209.001  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER (First - 1998):

1. Prepared and submitted quarterly status report for fourth quarter 1997.
2. No environmental work was conducted at the site during the first quarter 1998.

#### WORK PROPOSED FOR NEXT QUARTER (Second - 1998):

1. Prepare and submit quarterly status report for first quarter 1998.
2. Pursue case closure for the site.

#### DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.



Mr. Paul Supple  
September 15, 1998  
Page 2

Project 20805-209.001

Please call if you have questions.

Sincerely,

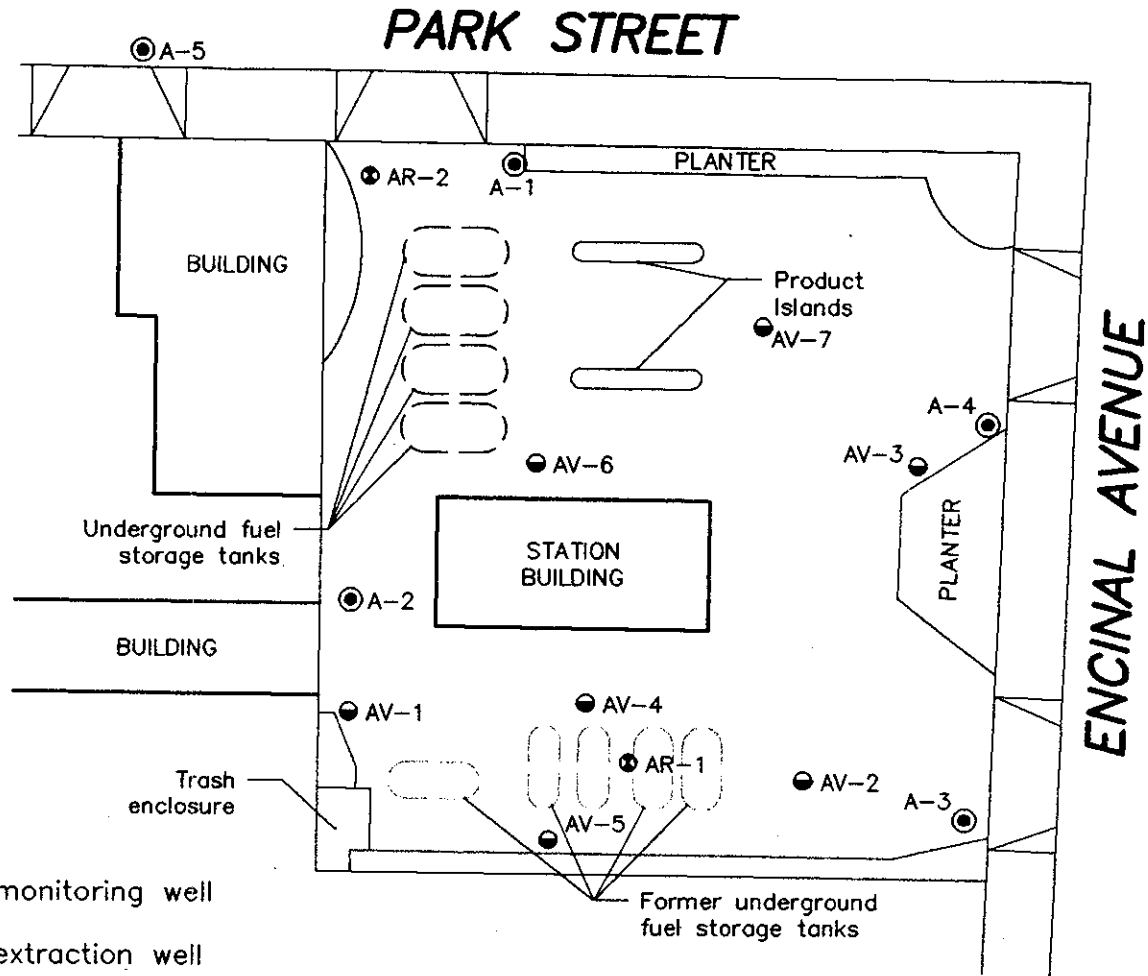
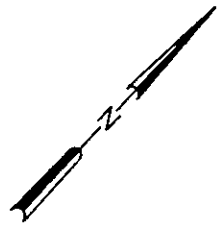
Pinnacle



Glen VanderVeen  
Project Manager

Attachment: Figure 2 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region



**EXPLANATION**

- Groundwater monitoring well
- ⊕ Groundwater extraction well
- Soil vapor well

*Pinnacle*

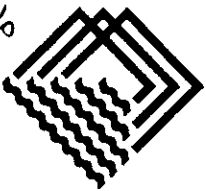
**ENVIRONMENTAL SOLUTIONS  
 A DIVISION OF EMCON**



DATE AUG. 1998  
 DWN KK  
 APP \_\_\_\_\_  
 REV \_\_\_\_\_  
 PROJECT NO.  
 805-209.001

**FIGURE 2**  
 ARCO PRODUCTS COMPANY  
 SERVICE STATION 2112 - 1260 PARK STREET  
 ALAMEDA, CALIFORNIA  
**SITE PLAN**

928-8330445



PACIFIC ENVIRONMENTAL GROUP, INC.

RO# 44

lot open case

ENVIRONMENTAL PROTECTION

# Quarterly Status Report Third Quarter 1997

PH 4: 31

ARCO Service Station 2112  
1260 Park Street at Encinal Avenue  
Alameda, California

Prepared for

Mr. Paul Supple  
ARCO Products Company

December 31, 1997

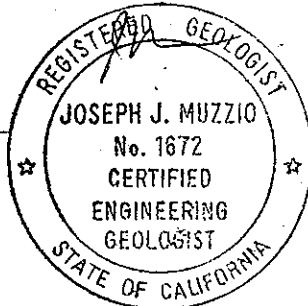
Prepared by

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

Project 330-106.2D

Shaw Garakani  
Project Engineer

Joseph Muzzio  
Project Manager  
CEG 1672



Date: December 31, 1997  
Quarter: 3Q97

### ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street at Encinal Avenue, Alameda  
ARCO Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: Pacific Environmental Group, Inc./Shaw Garakani  
Consultant Project No.: 330-106.2D  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER (Third - 1997):

1. Discontinued groundwater monitoring program.
2. Submitted second quarter 1997 groundwater monitoring report.

#### WORK PROPOSED FOR NEXT QUARTER (Fourth - 1997):

1. Pursue case closure for the site.
2. Prepare and submit third quarter 1997 status report.

Current Phase of Project:	<u>N/A</u>	(Assmnt, Remed., etc.)
Frequency of Groundwater Sampling:	<u>N/A</u>	(Quarterly, etc.)
Frequency of Groundwater Monitoring:	<u>N/A</u>	(Monthly, etc.)
Is Free Product (FP) Present On-Site:	<u>No</u>	(Yes/No)
FP Recovered this Quarter:	<u>None</u>	(gallons)
Cumulative FP Recovered to Date:	<u>None</u>	(gallons)
Bulk Soil Removed This Quarter:	<u>None</u>	(cubic yards)
Bulk Soil Removed to Date:	<u>1,950</u>	(cubic yards)
Current Remediation Techniques:	<u>Natural Attenuation</u>	(SVE/Sparge/FP Removal, etc.)
Approximate Depth to Groundwater:	<u>9.43 to 11.65 as of 2Q97</u>	(Measure Feet)
Groundwater Gradient:	<u>West as of 2Q97</u>	(Direction)
	<u>0.008 as of 2Q97</u>	(Magnitude)
Period TPPH-g/Benzene Removed:	<u>0.0/0.0</u>	(gallons)
Cumulative TPPH-g/Benzene Removed:	<u>55/0.1</u>	(gallons)

December 31, 1997

Page 2

**DISCUSSION:**

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- On behalf of ARCO, PACIFIC submitted a "Case Closure Summary" dated November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to PACIFIC's *Quarterly Groundwater Monitoring Reports - Fourth Quarter 1996 and Second Quarter 1997* for historical groundwater and remedial system performance data.

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region

ARCO Products Company

Post Office Box 612530  
San Jose, California 95161

Environmental Remediation



June 14, 1996

Projects: 330-084.5C/330-105.5B  
330-106.5C/330-109.5B

Ms. Sue Jenne  
East Bay Municipal Utilities District  
P.O. Box 24055  
Oakland, California 94623-1055

Re: Request to Relinquish Wastewater Discharge Permits  
Miscellaneous sites

Dear Ms. Jenne:

ARCO Products Company wishes to relinquish the wastewater discharge permits for the following sites, effective immediately. Please do not hesitate to call if you have any questions.

- |   |  |
|---|--|
| <p><i>R078</i></p> <p>1. Discharge Permit 502-85611<br/>ARCO Service Station 0374<br/>6407 Telegraph Avenue<br/>Oakland, California</p> | <p><i>0</i></p> <p>2. Discharge Permit 502-64411<br/>ARCO Service Station 2107<br/>3310 Park Boulevard at East 34th Street<br/>Oakland, California</p> |
| <p><i>R044</i></p> <p>3. Discharge Permit 502-65201<br/>ARCO Service Station 2112<br/>1260 Park Street<br/>Alameda, California</p>      | <p><i>R076</i></p> <p>4. Discharge Permit 502-62131<br/>ARCO Service Station 4931<br/>731 West MacArthur Boulevard<br/>Oakland, California</p>         |

Sincerely,  
ARCO Products Company

Michael Whelan  
Environmental Engineer

cc: Mr. Barney Chan, Alameda County Health Care Services Agency  
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region  
Ms. Susan Hugo, Alameda County Health Care Services Agency  
Mr. Shaw Garakani, Pacific Environmental Group, Inc.



ENVIRONMENTAL  
PROTECTION  
96 JUN 17 PM 2:21



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

January 19, 1996  
Project 330-106.5C

Mr. Ray Maxwell  
East Bay Municipal Utilities District  
P.O. Box 24055  
Oakland, California 94623-1055

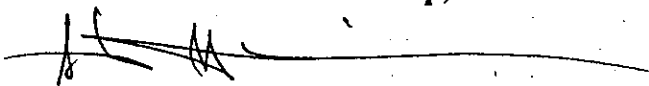
Re: Wastewater Discharge Permit 502-65201  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California

Dear Mr. Maxwell:

On behalf of ARCO Products Company, Pacific Environmental Group, Inc. (PACIFIC) is performing environmental services at the site referenced above. Per our phone conversation yesterday, PACIFIC requests a change to the referenced permit. In light of the new regulatory environment, and a recent meeting with the Alameda County Health Care Services Agency regarding the site, groundwater extraction at this site will no longer be required, unless further migration of the contaminated groundwater plume occurs. However, until site closure has been granted, PACIFIC would like to maintain the referenced permit. Therefore, PACIFIC requests to change the estimated annual discharge volume from 792,415 to 70,123 gallons retroactively to the start date of the current permit, and receive billing credit for fees paid to the East Bay Municipal Utilities District prior to the proposed change in discharge volume. The groundwater extraction system was shut down in August 1995 and has remained shut down to this date. Treatment system operational data are presented in Table 1.

Please do not hesitate to call if you have any questions.

Sincerely,  
**Pacific Environmental Group, Inc.**

  
Shaw Garakani  
Project Engineer

Attachment: Table 1 - Groundwater Extraction System Performance Data

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

3301055B\EBMUD1.DOC

Table 1  
Groundwater Extraction System Performance Data

ARCO Service Station 2112  
1260 Park Street  
Alameda, California

Sample I.D.	Date Sampled	Totalizer Reading (gallons)	Net Volume (gallons)	Average Flow Rate (gpm)	TPPH as Gasoline			Benzene			Primary Carbon Loading (percent)
					Influent Concentration (µg/L)	Net Removed (lbs)	Removed to Date (lbs)	Influent Concentration (µg/L)	Net Removed (lbs)	Removed to Date (lbs)	
INFL	06/28/94	741,520	N/A	1.3	ND	0.00	0.80	ND	0.000	0.133	1.0
INFL	11/04/94 a	782,881	41,361	N/A	ND	0.00	0.80	ND	0.000	0.133	1.0
INFL	03/07/95 b	804,954	22,073	N/A	NS	0.00	0.80	NS	0.000	0.133	1.0
INFL	04/20/95	826,131	21,177	0.3	ND	0.00	0.80	ND	0.000	0.133	1.0
INFL	05/03/95	836,000	9,869	0.5	NS	0.00	0.80	NS	0.000	0.133	1.0
INFL	06/06/95	886,000	62,000	1.3	NS	0.00	0.80	NS	0.000	0.133	1.0
INFL	07/06/95 c	945,200	47,200	1.1	74	0.01	0.81	13	0.003	0.135	1.0
INFL	08/03/95 d	945,200	0	0.0	ND	0.00	0.81	3.5	0.000	0.135	1.0
REPORTING PERIOD: 05/06/94 - 08/03/95 (d)											
TOTAL POUNDS REMOVED:							0.81			0.136	
TOTAL GALLONS REMOVED:							0.13			0.010	
PERIOD POUNDS REMOVED:						0.01			0.003		
PERIOD GALLONS REMOVED:						0.00			0.000		
TOTAL GALLONS EXTRACTED:					945,200						
PERIOD GALLONS EXTRACTED:					47,200						
PERIOD AVERAGE FLOW RATE (gpm):					1.2						
TPPH = Total purgeable petroleum hydrocarbons gpm = Gallons per minute µg/L = Micrograms per liter lbs = Pounds N/A = Not available or not applicable ND = Not detected above the detection limit NS = Not sampled (system influent sampled quarterly in January, April, July, and August) a. System shut down for repair by Pacific Environmental Group, Inc. on November 4, 1994. b. System restarted March 7, 1995; continuous operation began on this date. c. GWE system shut down for pulsing. d. GWE system re-started for sampling, then temporarily shut down August 3, 1995. Mass removed is an approximation calculated using averaged concentrations. Pounds of hydrocarbons removed to date provided by prior consultant, GeoStrategies Incorporated. See certified analytical reports for detection limits.											

2044



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

June 12, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
ARCO Service Station No. 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

- \* Completed design and equipment selection for the proposed remedial system.
- \* Prepared Remedial Action Plan.

Anticipated Work to be Performed in the Next Month:

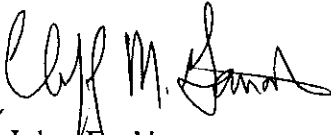
- \* Ground-water sampling and monitoring for the second quarter, 1992 will be performed.
- \* Issue Aquifer Test/Well Installation Report to ARCO, ACHA, and RWQCB.
- \* Secure encroachment permits from the City of Alameda for the proposed off-site recovery well and monitoring well.
- \* Apply for POTW permit for water discharge from the proposed groundwater treatment system.
- \* Apply for an air discharge permit from the Bay Area Air Quality Management District for the proposed vapor extraction system.
- \* Issue draft Remedial Action Plan to ARCO.

**GeoStrategies Inc.**

ARCO Products Company  
June 12, 1992  
Page 2

Please call if you have any questions concerning this letter.

Sincerely,

  
for John F. Vargas  
Senior Geologist

JFV:rcm

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of  
Environmental Health (certified mail)  
Mr. Eddy So, RWQCB, San Francisco Bay Region

Certified Mail # 046 870 915 01-0090

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 11/30/93		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. Brignoni		PHONE 8101407-2609
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		SIGNATURE T. Brignoni
	ADDRESS P.O. Box 6038, Artesia, CA 90702-6038		
RESPONSIBLE PARTY	NAME ARCO Products Co.		CONTACT PERSON T. Brignoni
	ADDRESS Same		PHONE 8101407-2609
SITE LOCATION	FACILITY NAME (IF APPLICABLE) # 2112		OPERATOR Jaswinder Sethon
	ADDRESS 1260 Park St., Alameda		PHONE 510-865-7335
	CROSS STREET Encinal		CITY, STATE, ZIP Alameda 94501
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Public Health		CONTACT PERSON Juliette Blake
	REGIONAL BOARD		PHONE ( )
SUBSTANCES INVOLVED	(1) NAME gasoline 4/gal		QUANTITY LOST (GALLONS) 4 gals
	(2)		<input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 11/30/93		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER Visual
	DATE DISCHARGE BEGAN 11/30/93		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE		<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 N/A
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 type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input checked="" type="checkbox"/> SPILL Customer
	CHECK ONE ONLY <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"/> LEAK BEING CONFIRMED <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> CLEANUP UNDERWAY		
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) Cleaned up with absorbent material and stored it on site. <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> ENHANCED BIO-DEGRADATION (IT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VENT SOIL (VS)		
COMMENTS	material and stored it on site.		

ec: Kyle Chrishe - ARCO

## 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 Backup - 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.

Certified Mail - P 046 870 916

01-0090

### 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 checked="" 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 1/1/2009	CASE # N/A	SIGNED _____ DATE _____

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT T. Brignoni	PHONE 310 407 2609	SIGNATURE T. Brignoni
	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 6038, Artesia, CA 90702-6038		

RESPONSIBLE PARTY	NAME ARCO Products Co.	CONTACT PERSON T. Brignoni	PHONE (310) 407 2609
	ADDRESS Same as above		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) # 2112	OPERATOR Jaswinder Sekhon	PHONE (510) 865-7335
	ADDRESS 1260 Park St., Alameda		Alameda 94501
	CROSS STREET Encinal	CITY	STATE

IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Public Health	AGENCY NAME	CONTACT PERSON Juliette Blake	PHONE (510) 271-4320
	REGIONAL BOARD			PHONE ( ) -

SUBSTANCES INVOLVED	(1) NAME gasoline U/L	QUANTITY LOST (GALLONS) 3 Gals	<input type="checkbox"/> UNKNOWN
	(2)		<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 1/1/2009	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER Visual
	DATE DISCHARGE BEGAN 1/1/2009	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 N/A
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1/1/2009	

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 type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER TOP-off Pump #9
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CASE TYPE	CHECK ONE ONLY <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)
-----------	---

Confined to company property

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

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

Comments: with absorbent material and stored it on site.

cc: Kyle Christie - ARCO



## 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.

Earth Prod Mark P 046 870 942

01-0090

# 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 type="checkbox"/> YES <input checked="" 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 1/17/93	PHONE # N/A	SIGNED	DATE
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REPORTED BY T. Brignoni	PHONE BIO 1407-2609	SIGNATURE T. Brignoni
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 6038, Artesia, CA 90702-6038		

RESPONSIBLE PARTY NAME ARCO Products Co. <input type="checkbox"/> UNKNOWN	CONTACT PERSON T. Brignoni	PHONE 1310 407 2609
ADDRESS Same as above		

SITE LOCATION FACILITY NAME (IF APPLICABLE) # 2112	OPERATOR Jaswinder Sekhon	PHONE 510 865-7335
ADDRESS 1260 Park St. Alameda 94501	CITY STATE ZIP	
CROSS STREET Encinal		

IMPLEMENTING AGENCIES LOCAL AGENCY Alameda Co. Public Health	AGENCY NAME	CONTACT PERSON Juliette Blake	PHONE (510) 271 4320
REGIONAL BOARD			PHONE ( )

SUBSTANCES INVOLVED (1) gasoline U/L	NAME	QUANTITY LOST (GALLONS) 1 Gal <input type="checkbox"/> UNKNOWN
(2)		<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT DATE DISCOVERED 1/17/93	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Drive-off	<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> MISPLACED CONDITIONS
DATE DISCHARGE BEGAN 1/17/93	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 1/17/93		

SOURCE/CAUSE SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input 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 checked="" type="checkbox"/> OTHER Drive-off
CASE TYPE CHECK ONE ONLY <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)	Pumps 1 & 2

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) Site attendant cleaned up
--

COMMENTS  
with absorbent material. Material kept on site. Rad Runner Contractor dispatched for maintenance.

cc: Kyle Christie - ARCO

## 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

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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 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

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Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

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### REMEDIAL ACTION

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Containment Barrier - install vertical dike to block horizontal movement of contaminant.

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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.

Certificate No. P 055 875 595 01-10090

**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		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 10/08/93		CASE # N/A		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT T. Brignoni		PHONE (310) 407-2609	SIGNATURE T. Brignoni	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME ARCO Products Co.		
	ADDRESS P.O. Box 6038, Artesia, CA 90702-6038				
RESPONSIBLE PARTY	NAME ARCO Products Co.		CONTACT PERSON T. Brignoni	PHONE (310) 407-2609	
	ADDRESS P.O. Box 6038, Artesia, CA 90702-6038				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) #2112		OPERATOR Jaswinder Sekhon	PHONE (510) 865-7335	
	ADDRESS 1260 Park St., Alameda, CA 94501				
	CROSS STREET Encinal				
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Public Health		CONTACT PERSON Juliette Blake	PHONE (510) 271-4320	
	REGIONAL BOARD _____				
SUBSTANCES INVOLVED	(1) NAME gasoline		QUANTITY LOST (GALLONS) 2 Gals		
	(2) _____				
DISCOVERY/ABATEMENT	DATE DISCOVERED 10/08/93		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER Visual		
	DATE DISCHARGE BEGAN 10/08/93		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 checked="" 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 10/08/93				
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 type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input checked="" type="checkbox"/> SPILL <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <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"/> LEAK BEING CONFIRMED <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) Attendant cleaned up with absorbent material. Material stored on site <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VENT SOIL (VS)				
COMMENTS	absorbent material. Material stored on site				

cc: Kyle Christie - ARCO

## 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.



GeoStrategies Inc.

93 JAN 22 10:19

January 19, 1993

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

(Certified Mail)

Subject: Remediation Schedules for ARCO Sites in Alameda County,  
California

Dear Mr. Heitt:

On behalf of ARCO Products Company (ARCO), and as requested in the meeting held on November 19, 1992 at the Alameda County Health Care Services Agency (ACHCSA), GeoStrategies Inc. (GSI) has revised the Remediation Implementation schedules for remediation of sites under your regulatory oversight.

The darkened lines on the schedules represent deadlines which were agreed upon during the November 19, 1992 meeting. The hatched lines represent our best guess estimates of times which may be required to complete tasks should unforeseen delays occur. These unforeseen delays include permitting issues, offsite access issues, and estimated times of operation of the respective remediation systems.

:ARCOMISC\7926RTL.LTR(kjj)

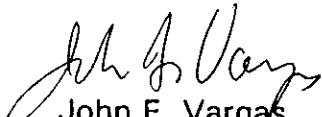
2140 WEST WINTON AVENUE • HAYWARD, CALIFORNIA 94545 • (510) 352-4800  
601 UNIVERSITY AVENUE • SUITE 150 • SACRAMENTO, CALIFORNIA 95825 • (916) 568-7500

**GeoStrategies Inc.**

Regional Water Quality Control Board  
January 19, 1993  
Page 2

If you have any questions or comments, please contact us at (510) 352-4800  
or Mr. Michael Whelan of ARCO at (415) 571-2449.

Sincerely,

  
John F. Vargas  
Project Manager

cc: Ms. Susan Hugo, ACHA (Certified Mail)  
Mr. Michael Whelan, ARCO  
Mr. John Meck, ARCO Legal  
Mr. H.C. Winsor, ARCO  
Mr. Mark Thomson, Alameda County DA (without attachments)

# PROJECT TIME LINE

ACTIVITY		1992												1993												
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
SOIL INVESTIGATION (1)		■																						COMPLETED OCT, 1991		
ADDITIONAL GROUNDWATER INVESTIGATION (2)		■		■																				COMPLETED 8-27-92		
GROUNDWATER	REMEDIATION SYSTEM DESIGN (3)	■		■																				COMPLETED SEPT, 1992		
	SYSTEM PERMITTING (4)	■		■																				RECEIVED 1/15/93		
	EQUIPMENT PROCUREMENT (5)	■		■																				COMPLETED		
	SYSTEM CONSTRUCTION AND START-UP (6)	■		■																				START-UP 1/15/93		
	SYSTEM OPERATION AND MAINTENANCE (7)	■		■										▨										JAN, 1998		
	PERFORMANCE EVALUATION (8)	■		■										▨												
	REMEDIATION SYSTEM DESIGN (9)	■		■																				COMPLETED SEPT, 1992		
	SYSTEM PERMITTING (10)	■		■																				COMPLETED		
SOIL	EQUIPMENT PROCUREMENT (11)	■		■																				COMPLETED		
	SYSTEM CONSTRUCTION AND START-UP (12)	■		■																				ANTICIPATED COMP. 12-18-92		
	SYSTEM OPERATION AND MAINTENANCE (13)	■		■										▨												
	VERIFICATION SOIL BORINGS (14)	■		■										▨										JAN-MAR, 1994		
	VERIFICATION GROUNDWATER MONITORING (15)	■		■										▨										FEB, 1998-JAN, 1999		
SITE CLOSURE (SOIL AND GROUNDWATER) (16)		■		■										▨										FEB, 1999-JAN, 2000		

## LEGEND

(X) FOR NOTES AND ASSUMPTIONS REFER TO PLATES 2, 3 AND 4

■ PROBABLE SCHEDULE

▨ ESTIMATED SCHEDULE



GeoStrategies Inc.

REMEDIATION IMPLEMENTATION SCHEDULE  
 ARCO Service Station #2112  
 1260 Park Street  
 Alameda, California

PLATE

1

JOB NUMBER  
7920-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
1/93



**(1) Soil Investigation**

- Soil contamination is on-site only and has been delineated by already completed work

**(2) Additional Ground-water Investigation**

- Ground-water investigation has been completed (GSI, September 25, 1992).
- Ground-water contamination was delineated upon completion of the activities proposed in the work plan.
- Field work, data evaluation, and reporting was completed on September 29, 1992.

**(3) Remediation System Design (Ground-water)**

- Ground-water remediation will only be required onsite.
- A Remedial Action Plan (RAP) was submitted on September 27, 1992 detailing the design of the on-site ground-water remediation system.

**(4) Remediation System Permitting (Ground-water)**

- Modifications to design were required for permitting.
- Planning/Building department approval was obtained on September 30, 1992.
- Discharge permit approval was obtained on July 14, 1992. The permit was issued January 5, 1993.

**(5) Equipment Procurement (Ground-water)**

- No equipment modification due to agency/permitting requirements.
- System equipment has been received.



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2112  
1260 Park Street  
Alameda, California

PLATE

**2**

JOB NUMBER  
7920-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
1/93

**(6) System Construction and Startup (Ground-water)**

- System construction was started on October 19, 1992.
- System equipment installation is scheduled for completion on December 18, 1992.
- Startup originally scheduled for February 1, 1993, and was performed on January 5, 1993.

**(7) System Operation and Maintenance (Ground-water)**

- Five year operation of system to meet cleanup levels.
- Regulatory approval of system shutdown after five years.

**(8) Performance Evaluation (Ground-water)**

- Will show system is operating as designed and does not require modification.

**(9) Remediation System Design (Soil)**

- Soil remediation will only be required on-site.
- A RAP was prepared detailing the design of the on-site soil remediation system and was submitted September 27, 1992.
- No revisions were required following agency review.

**(10) System Permitting (Soil)**

- No modifications to design required for permitting
- BAAQMD permit was issued August 10, 1992.
- Building/Planning department approval was obtained September 30, 1992.



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2112  
1260 Park Street  
Alameda, California

PLATE

**3**

JOB NUMBER  
7920-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
1/93

**(11) Equipment Procurement (Soil)**

- No special equipment modification due to agency/permitting requirements.
- System equipment has been received.

**(12) System Construction and Startup (Soil)**

- System construction was started on October 19, 1992.
- System equipment installation is scheduled for completion on December 18, 1992.
- Startup is scheduled for December 21, 1992.

**(13) System Operation and Maintenance (Soil)**

- One year operation of system to meet cleanup levels.
- Regulatory approval of system shutdown after one year.

**(14) Verification Soil Borings**

- Borings demonstrate soil cleanup has been achieved - no further system operation.

**(15) Verification Monitoring**

- One year (four quarters) of monitoring water-levels and sampling.
- Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.

**(16) Site Closure**

- Agency approval based on results of verification borings, monitoring and sampling.



GeoStrategies Inc.

REMEDICATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2112  
1260 Park Street  
Alameda, California

PLATE

**4**

JOB NUMBER  
7920-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

# PROJECT TIME LINE

ACTIVITY	1992												1993															
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D				
TANK REPLACEMENT (1)																								COMPLETED MAR, 1992				
ADDITIONAL SOIL INVESTIGATION (2)																									COMPLETED OCT, 1992			
GROUNDWATER INVESTIGATION (3)																												ON SITE, COMPLETED OCT, 1992
GROUNDWATER	REMEDATION SYSTEM DESIGN (4)																											
	SYSTEM PERMITTING (5)																											
	EQUIPMENT PROCUREMENT (6)																											
	SYSTEM CONSTRUCTION AND START-UP (7)																											
	SYSTEM OPERATION AND MAINTENANCE (8)																											
	PERFORMANCE EVALUATION (9)																								SEPT, 1998 JAN, 1994			
SOIL	REMEDATION SYSTEM DESIGN (10)																											
	SYSTEM PERMITTING (11)																											
	EQUIPMENT PROCUREMENT (12)																											
	SYSTEM CONSTRUCTION AND START-UP (13)																											
	SYSTEM OPERATION AND MAINTENANCE (14)																											
VERIFICATION SOIL BORINGS (15)																								SEPT, 1994 SEPT-NOV, 1994				
VERIFICATION GROUNDWATER MONITORING (16)																								SEPT, 1998-APR, 1999				
SITE CLOSURE (SOIL AND GROUNDWATER) (17)																								SEPT, 1999-AUG, 2000				

## LEGEND

(X) FOR NOTES AND ASSUMPTIONS REFER TO PLATES 2 THROUGH 5.

PROBABLE SCHEDULE

ESTIMATED SCHEDULE



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
 ARCO Service Station #2169  
 889 West Grand Avenue  
 Oakland, California

PLATE

1

JOB NUMBER  
7927-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
1/93

**(1) Tank Replacement**

- Tank replacement was completed in March 1992 (Roux report).
- All stockpiled soil was aerated and removed from the site during March 1992.

**(2) Additional Soil Investigation**

- Soil contamination is on-site only.
- Soil contamination is delineated by completion of the activities proposed in the work plan.
- Field work, data evaluation, and reporting of the soil investigation was completed on November 24, 1992.

**(3) Ground-water Investigation**

- The work plan for on-site assessment has been submitted to the Alameda County Health Agency.
- Field work, data evaluation, and reporting of the ground-water investigation phase was completed on November 24, 1992. Field work included installation of ground-water monitoring and extraction wells, vapor extraction wells, aquifer test and vapor extraction test.
- Additional work will be required off-site to complete ground-water delineation.
- A second work plan will be prepared for an off-site ground-water investigation.
- The second work plan will be approved by the Alameda County Health Agency within one month after submittal.
- Ground-water contamination will be delineated after completion of the activities proposed in the second work plan.
- It will take approximately four months to obtain a City of Oakland Public Works Agency Encroachment Permit.
- Field work, data evaluation, and reporting of the ground-water investigation phase will require approximately two months to complete after issuance of applicable permits.



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2169  
889 West Grand Avenue  
Oakland, California

PLATE

**2**

JOB NUMBER  
7927-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

(4) Remediation System Design (Ground-water)

- The tank replacement project will be completed by March 1992.
- Ground-water remediation will only be required onsite.
- A Remedial Action Plan (RAP) will be prepared detailing the design of the on-site ground-water remediation system.
- The RAP will be approved by the Alameda County Health Agency within one month of submittal.
- No revisions will be required following agency review.

(5) Remediation System Permitting (Ground-water)

- No modifications to design required for permitting.
- Planning/Building department approval within 120 days.
- BAAQMD permit within 90 days.
- Discharge permit approval within 90 days.

(6) Equipment Procurement (Ground-water)

- No equipment modification due to agency/permitting requirements.
- Equipment available from manufacturers stock within six weeks.



GeoStrategies Inc.

REMEDIATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2169  
889 West Grand Avenue  
Oakland, California

PLATE

**3**

JOB NUMBER  
7927-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

**(7) System Construction and Startup (Ground-water)**

- No delays due to underground storage tank replacement.
- No delays from utility companies.
- No special dealer/property owner requirements.
- No unusual contractor delays.
- No unforeseen on-site conditions.
- No weather delays.
- This task includes bid process, bid evaluation, contract completion and system construction.

**(8) System Operation and Maintenance (Ground-water)**

- Five year operation of system to meet cleanup levels.
- Regulatory approval of system shutdown after five years.

**(9) Performance Evaluation (Ground-water)**

- Will show system is operating as designed and does not require modification.

**(10) Remediation System Design (Soil)**

- The tank replacement project will be completed by March 1992.
- Soil remediation will only be required on-site only.
- A RAP will be prepared detailing the design of the on-site soil remediation system.
- The RAP will be approved by the Alameda County Health Care Services Agency within one month of submittal.
- Soil vapor extraction is a feasible remediation method.
- No revisions due to agency review.



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2169  
889 West Grand Avenue  
Oakland, California

PLATE

**4**

JOB NUMBER  
7927-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
1/93

**(11) System Permitting (Soil)**

- No modifications to system design required for permitting.
- BAAQMD approval within 120 days
- Building/Planning department approval within 120 days.

**(12) Equipment Procurement (Soil)**

- No special agency requirements.
- Available from manufacturer stock within eight weeks.

**(13) System Construction and Startup (Soil)**

- No delays due to underground storage tank replacement.
- No delays from utility companies.
- No special dealer/property owner requirements.
- No unusual contractor delays.
- No unforeseen on-site conditions.
- No weather delays.

**(14) System Operation and Maintenance (Soil)**

- One year operation of system to meet cleanup levels.
- Regulatory approval of system shutdown after one year.



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #2169  
889 West Grand Avenue  
Oakland, California

PLATE

**5**

JOB NUMBER  
7927-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92



**(15) Verification Borings**

- Borings demonstrate soil cleanup has been achieved - no further system operation.

**(16) Verification Monitoring**

- One year (four quarters) of monitoring water-levels and sampling.
- Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.

**(16) Site Closure**

- Agency approval based on results of verification borings, monitoring and sampling.



GeoStrategies Inc.

**REMEDATION IMPLEMENTATION SCHEDULE**

ARCO Service Station #2169  
889 West Grand Avenue  
Oakland, California

PLATE

**6**

JOB NUMBER  
7927-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

# PROJECT TIME LINE

ACTIVITY	1992												1993												
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
TANK REPLACEMENT (1)																									COMPLETED JUNE, 1992
ADDITIONAL SOIL INVESTIGATION (2)																									
ADDITIONAL GROUNDWATER INVESTIGATION (3)																									
GROUNDWATER	REMEDIATION SYSTEM DESIGN (4)																								
	SYSTEM PERMITTING (5)																								
	EQUIPMENT PROCUREMENT (6)																								
	SYSTEM CONSTRUCTION AND START-UP (7)																							COMPLETED 11-13-92	
	SYSTEM OPERATION AND MAINTENANCE (8)																								NOV., 1997
	PERFORMANCE EVALUATION (9)																								START-UP 11-13-92
	VERIFICATION GROUNDWATER MONITORING (10)																								NOV., 1997-OCT., 1998
SITE CLOSURE (SOIL AND GROUNDWATER) (11)																								NOV., 1998-OCT., 1999	

## LEGEND

(X) FOR NOTES AND ASSUMPTIONS  
REFER TO PLATES 2, 3 AND 4

PROBABLE SCHEDULE

ESTIMATED SCHEDULE



GeoStrategies Inc.

## REMEDIATION IMPLEMENTATION SCHEDULE

ARCO Service Station #4931  
731 West MacArthur Boulevard  
Oakland, California

PLATE

1

JOB NUMBER  
7909-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
1/93

**(1) Tank Replacement**

- Tank replacement was completed in June 1992.
- All stockpiled soil was aerated and removed from the site in June 1992.

**(2) Additional Soil Investigation**

- Soil contamination is on-site only.
- Soil contamination was removed primarily during the tank replacement project.
- Field work, data evaluation, and reporting of the soil investigation was completed in October 1992.

**(3) Additional Ground-water Investigation**

- The work plan was prepared for the installation of one off-site monitoring well and two on-site recovery wells.
- The work plan was approved by the Alameda County Health Care Services Agency within one month of submittal
- Ground-water contamination was delineated upon completion of the activities proposed in the work plan.
- City of Oakland Public Works Agency Encroachment Permit issued June 1, 1992.
- Additional on-site recovery wells were installed June 15 and 16, 1992.
- Field work, data evaluation, and reporting of the ground-water investigation phase was completed on November 13, 1992.
- Field work was completed in June 1992.



GeoStrategies Inc.

REMEDICATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #4931  
731 West MacArthur Boulevard  
Oakland, California

PLATE

**2**

JOB NUMBER  
7909-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

**(4) Remediation System Design (Ground-water)**

- Ground-water remediation will only be required onsite.
- The already completed design will be approved by the Alameda County Health Care Services Agency within one month of submittal.
- No revisions will be required following agency review.

**(5) System Permitting (Ground-water)**

- Discharge permit will be issued in 60 days.
- BAAQMD permit will be issued in 60 days.
- Planning/Building department approval will be issued in 120 days.
- No modifications to design required for permitting.

**(6) Equipment Procurement (Ground-water)**

- No equipment modification due to agency/permitting requirements.
- Equipment available from manufacturers stock within six weeks.



GeoStrategies Inc.

**REMEDIATION IMPLEMENTATION SCHEDULE**

ARCO Service Station #4931  
731 West MacArthur Boulevard  
Oakland, California

PLATE

**3**

JOB NUMBER  
7909-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

(7) System Construction and Startup (Ground-water)

- The recovery system construction and installation was completed in November 1992.
- Startup of the system was performed on November 13, 1992.

(8) System Operation and Maintenance (Ground-water)

- Five year operation of system to meet cleanup levels.
- Regulatory approval of system shutdown after five years.

(9) Performance Evaluation (Ground-water)

- Will show system is operating as designed and does not require modification.

(10) Remediation System Design (Soil)

- The tank replacement project was completed in June 1992.
- Soil remediation was performed by overexcavation during the tank replacement project.

(11) Verification Ground-water Monitoring

- One year length.
- Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.

(12) Site Closure

- Agency approval based on results of verification borings, monitoring and sampling.



GeoStrategies Inc.

REMEDATION IMPLEMENTATION SCHEDULE  
ARCO Service Station #4931  
731 West MacArthur Boulevard  
Oakland, California

PLATE

4

JOB NUMBER  
7909-RTL

REVIEWED BY

DATE  
1/92

REVISED DATE  
12/92

93 JAN 14 11 51 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 Date of Last Current  
SITE UPDATE Review/Update: 10/1/92 Date: 1/4/93

\*\*\*\*\*

SITE IDENTIFICATION

Name: ARCO Products Company #2112 Case No.:  
Address: 1260 Park Street  
Street Number Street  
Alameda 94501  
City Zip Code  
Alameda Substance: Gasoline  
County  
Local Agency: Alameda County Health Agency, Department of Environmental Health  
Regional Board: San Francisco Bay Region

\*\*\*\*\*

LEAD STAFF PERSON: Susan Hugo

\*\*\*\*\*

CASE TYPE:

Undetermined Soil Only X Ground Water Drinking Water

\*\*\*\*\*

STATUS (Date indicates when case moved into status)

No Action Taken Date:  
X Leak Being Confirmed Date: January 1990  
X Preliminary Site Assessment Workplan Submitted Date: January 1990  
X Preliminary Site Assessment Underway Date: July 1990  
X Pollution Characterization Date: September 1992  
X Remediation Plan Date: September 1992  
X Remedial Action Underway Date: December 1992  
Post Remedial Action Monitoring Date:  
Case Referred to Regional Board Date:  
Case Referred to Dept. of Health Services Date:  
Case Closed Date:

\*\*\*\*\*

MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. In September 1991, four monitoring wells, one recovery well, and three vapor extraction wells were installed on-site. In October 1991, A vapor extraction pilot test was performed. In December 1991, a 4 hour step/24 hour constant-rate aquifer test was performed. In January 1992, four vapor extraction wells were installed on-site. One down-gradient, off-site monitoring well and one on-site recovery well was installed in June 1992. Refer to the attached page for a chronological listing of reports issued for this site.

\*\*\*\*\*

RECENT ACTIVITIES/FINDINGS:

Fourth quarter, 1992 ground-water monitoring and sampling were performed. Issued Quarterly Monitoring Report documenting third quarter, 1992 sampling results. Completed construction and began operation of interim remedial system.

\*\*\*\*\*

ANTICIPATED ACTIVITIES:

Quarterly ground-water monitoring and sampling will continue. Issue Quarterly Monitoring Report documenting fourth quarter, 1992 sampling results.

\*\*\*\*\*

SS #2112

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.
Continuing Site Assessment/Quarterly Monitoring Report	January 27, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	April 10, 1992	GeoStrategies Inc.
Aquifer Test/Vapor Well Installation Report	August 27, 1992	GeoStrategies Inc.
Interim Remedial Action Plan	August 27, 1992	GeoStrategies Inc.
Quarterly Monitoring/Well Installation Report	September 25, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	November 2, 1992	GeoStrategies Inc.



3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
Phone: (408) 264-7723  
Fax: (408) 264-2435

92 NOV -9 PM 2: 34

## TRANSMITTAL

TO: Ms. Susan Hugo  
Alameda County Health Care Services  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94612

DATE: November 4, 1992  
PROJECT NUMBER:  
SUBJECT: Minutes for Meeting  
held on September 30, 1992.

FROM: Joel Coffman  
TITLE: Project Geologist

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COPIES	DATED	NO.	DESCRIPTION
1	11/4/92		Minutes to meeting held at ACHCSA on September 30, 1992.

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REMARKS: cc: Mr. Michael Whelan, ARCO Products Company  
Mr. Chris Winsor, ARCO Products Company  
Mr. John Meck, ARCO Legal Department  
Mr. John Jang, RWQCB, San Francisco Bay Region  
Mr. Richard Hiatt, RWQCB, San Francisco Bay Region  
Mr. John Vargas, GeoStrategies



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November 4, 1992  
1104shgo

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94612

Subject: Minutes to Meeting held at Alameda County Health Care Services Agency (ACHCSA) on September 30, 1992.

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), RESNA Industries, Inc. (RESNA has prepared these minutes for the meeting held at your offices on September 30, 1992. This meeting was held for discussion of ARCO sites located in Alameda County and under direction of Mr. Richard Hiatt and Mr. John Jang of the Regional Water Quality Control Board (RWQCB). As circumstances dictated, these RWQCB personnel were not able to attend the meeting, however, they will receive a copy of these minutes. Attending the whole meeting were Ms. Susan Hugo of the ACHCSA, Mr. Michael Whelan of ARCO, and Mr. Joel Coffman of RESNA. People attending parts of the meeting while particular sites were discussed included Mr. Barney Chan and Mr. Scott Seery of the ACHCSA, Ms. Valli Voruganti of RESNA, and Mr. John Vargas and Ms. Diane Lundquist of GeoStrategies, Inc. An agenda for the meeting, including a listing of sites for discussion, was sent to the offices of the ACHCSA and the RWQCB prior to the meeting.

Items discussed include the following: ongoing assessment at the sites, offsite access problems, sites near ARCO Stations reported on leak lists, schedules and changes in schedules for remediation, and other issues concerning the sites. Specific topics discussed for each site are included in the following minutes to the meeting.

Attending the meeting during discussion of ARCO Stations 276, 2035, 2107, 2185, and 4494 were Mr. Barney Chan and Ms. Susan Hugo of ACHCSA, Mr. Michael Whelan of ARCO, and Mr. Joel Coffman and Ms. Valli Voruganti of RESNA. Site specific topics discussed are included in the following portion of these minutes.

**ARCO Station 2035, 1001 San Pablo Ave., Albany, California**

Discussion of this site included mention that product previously found in recovery well RW-1 was collected in a passive floating product skimmer and had been hand bailed on a bi-weekly basis. Floating product in RW-1 has been reduced to a sheen. Ms. Hugo asked for product information concerning the skimmers, this information has been sent. Other discussion included the fact that the onsite vapor extraction wells had been installed and a vapor extraction test performed at the site in August, 1992. Offsite monitoring wells will be installed upon gaining Cal-Trans permits for the wells. During discussion concerning additional onsite monitoring wells, Mr. Chan suggested moving one of our proposed monitoring well locations (located on the southwest corner of the site) to the north a few feet so it would be situated more downgradient from the former waste oil and former gasoline storage tanks.

The ACHCSA agreed that the report for installation of the onsite vapor extraction wells and the results of the vapor extraction test would be initiated now and delivered in final form to ACHCSA by December 1, 1992. Due to the delays associated with gaining permits from Cal Trans for offsite monitoring well installation (still not received at date of this letter), the report with results of the installation offsite monitoring wells will be combined with results of installation of the additional onsite monitoring wells. ACHCSA wishes to be informed of prolonged offsite access problems, including permitting delays and obtaining offsite owner permission for installation of offsite wells.

In regards to the remediation schedule for this site, it was mentioned that the installation of vapor extraction wells and performance of a vapor extraction test and the need for additional onsite monitoring wells were not included in the original schedules. The ACHCSA agreed to a revised remediation schedule which includes these phases of work. A remedial action plan is due to the ACHCSA on March 1, 1993, and the anticipated date for start-up of an interim remediation system is July, 1993.

**ARCO Station 2107, 3310 Park Blvd., Oakland, California.**

In discussions concerning this site, Ms. Hugo asked about the TPHd detected previously at the site. Mr. Whelan explained that ARCO was requesting all laboratory chromatograms from previously ran analyses for study. As ARCO has never stored diesel at this site, it is suspected that the TPHd is actually weathered gasoline, which can fall within the same detectable range as diesel in laboratory analyses.

It was explained that offsite monitoring wells had been installed at the site and that the groundwater recovery well, RW-1, would be installed in conjunction with construction of the

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interim remediation system, which began October 19, 1992. This recovery well, RW-1, has now been installed. As the monitoring well MW-7, located immediately offsite and downgradient from the ARCO site has contained minor amounts of Benzene, it was agreed that no further assessment is needed at this time. The report including results of the installation of offsite monitoring wells and the recovery well is due to the ACHCSA on January 1, 1993.

**ARCO Station 2185, 9800 E. 14th St., Oakland, California.**

It was mentioned that the report documenting the underground storage tank removal and replacement had been issued by Roux Associates. ARCO mentioned that field work included in the recently completed subsurface investigation had been delayed until late June to early July, 1992, due to the delays related to the tank replacement activities at the site. The report for the subsurface investigation was issued in final form in September by RESNA. A work plan for additional work at the site will be prepared and submitted to the ACHCSA and RWQCB by December 1, 1992. Work to be proposed in the work plan will include installation of a groundwater recovery well, performance of an aquifer pumping and recovery test, installation of offsite groundwater monitoring wells, conducting an environmental records search, and performing a well survey to locate wells in the vicinity of the site.

In discussing the schedule for remediation at the site, it was also agreed that a Remedial Action Plan (RAP) will be prepared and submitted to the ACHCSA by June 1, 1993 and that design of an interim remediation system would be completed by August 1, 1993. Equipment needed for the system will be ordered and received by November 1, 1993, with the anticipated date for system start-up to be January 1, 1994.

**ARCO Station 4494, 566 Hegenberger Rd., Oakland, California**

ARCO mentioned that after almost a year of negotiations, offsite access had been granted by the adjacent property owner in July, 1992, for installation of offsite monitoring wells. These wells were drilled and installed in July 1992 and the report detailing the findings from this monitoring well installation was delivered to the ACHCSA on October 29, 1992.

Concerning tank replacement at the site, Mr. Whelan stated that ARCO is attempting to gain approval for a station rebuild in conjunction with tank replacement at the site. Delays associated with gaining the permits and approval for the rebuild have pushed the anticipated start date for these activities to approximately the first quarter 1993. Ms. Hugo asked if ARCO was planning to excavate the area around monitoring well MW-2, the only hydrocarbon impacted part of the site, during tank replacement activities. Mr. Whelan

explained ARCO would not be able to excavate very far due to limitations posed by structures and the offsite properties adjacent to the site. It was generally agreed that over-excavation may be the only feasible alternative for this site.

**ARCO Station 276, 10600 MacArthur Blvd., Oakland, California.**

ARCO mentioned that the offsite monitoring wells, MW-6 and MW-7, had been installed in the Foothill Square Shopping Center parking lot. One well, MW-7, was screened in the shallow water bearing zone and the other well, MW-6, in the deeper water-bearing zone. It was brought to the attention of Mr. Chan and Ms. Hugo that, as suspected, the groundwater samples collected from the upgradient, offsite, deeper water-bearing zone (from MW-6) contained the highest concentrations of Tetrachloroethene (PCE) of any wells on or near the site. This information supports previous suspicions that the PCE and other VOCs found in the deeper water-bearing zone originate from an offsite source. Mr. Coffman pointed out that while the Foothill Square Site is listed in the Report on Releases of Hazardous Substances from Underground Storage Tanks (page 31, January 1992, Report No. 92-2CWP), it is listed only as a gasoline leak with no reference made to the VOCs. ARCO also mentioned that the ARCO site is listed in the same leak report, but is erroneously listed as a waste oil leak. This is an erroneous listing based on analytical results of soil samples collected during removal of the tank in 1988 (Pacific, February 6, 1989). The samples collected and analyzed for waste-oil compounds from the waste-oil tank pit and immediately surrounding area contained non-detectable concentrations for waste oil and volatile organic compounds. Therefore, there is no evidence of a waste oil leak at the site. Laboratory analysis data from installation of the offsite borings/wells had previously been sent to Mr. Chan along with the monthly site status letters prepared for each site in Alameda County. This data will be included in a report documenting recent onsite and offsite work at the site to be delivered to ACHCSA by February 1, 1993.

Onsite work recently completed at the site includes installation of 7 vapor extraction wells and an additional groundwater monitoring well. The new onsite wells were piped together into the existing offsite vapor extraction system. In late August, a vapor extraction performance test was conducted at the site to compare the performance of the existing offsite system, which uses soil vapor probes, with use of the system using the new onsite vapor extraction wells. Performance data collected during the test will be used to facilitate design and provide information concerning the number of offsite vapor extraction wells which will be needed to enhance operation of the offsite portion of the vapor extraction system. Results of the vapor extraction test will be included in the report to be issued by February 1, 1993.

ARCO discussed plans to add additional offsite vapor extraction wells to the existing offsite vapor extraction system. ARCO is now working to obtain access for future offsite well installations. It was agreed that the Remedial Action Plan previously submitted to the ACHCSA by ARCO concerning interim groundwater remediation (RESNA, March 18, 1992) would not be implemented by ARCO as the Deeper aquifer at the site is impacted by VOCs from an offsite source. It was also agreed that since the shallow perched aquifer at the site which is impacted by gasoline hydrocarbons will not sustain pumping, the perched water bearing zone will be remediated by the vapor extraction system. Based on the remediation schedules submitted for this site in February 1992, ARCO is either on schedule or ahead of schedule for work to be performed at this site.

Upon conclusion of discussion concerning Station 276, Mr. Barney Chan departed the meeting.

**ARCO Station 374, 6407 Telegraph Ave., Oakland, California.**

Discussion concerning this site centered around the fact the City of Oakland had recently re-zoned the area and that previously submitted engineering designs would now have to pass through a zoning department review process. This will slow down the installation and start-up of the interim remediation system by a minimum of 60 days. Ms. Hugo asked for names of personnel she might contact at the city concerning this matter and Ms. Voruganti provided her with a listing. The names included Mr. Chris Buckley of the zoning department and Ms. Diane Bradshaw of the planning department. With these new permitting delays, the date for initiating construction of the system at the site will be moved back to at least **January, 1993**. This will allow for a system start-up date of not before **March, 1993**.

In reference to other site-related items, Mr. Whelan and Mr. Coffman pointed out that a former Mobil Oil Service Station site, which is a potential secondary source of hydrocarbons in groundwater, is located diagonally across Telegraph Avenue, approximate 120 feet southeast and upgradient/crossgradient of ARCO 374. The street address for this site is 6398 Telegraph Avenue.

This potential secondary source is currently a vacant lot owned by Givens Investment Company (Givens). The site is known to have had an underground-storage tank (UST) leak, as evidenced by placement of the site on the Report on Releases of Hazardous Substances from Underground Storage Tanks, State Water Resources Control Board, California Environmental Protection Agency, January 1992, Report No. 92-2CWP. The service station was present at this location from at least 1957 until at least 1985. According to the Report on Releases of Hazardous Substances from Underground Storage Tanks, the

leak was reported in April 1986 and was last reviewed in June 1990 and no action has been taken by the responsible party since the initial report of the leak. Actions recommended in the report regarding the former Mobile Station included removal of free product and excavation and treatment of contaminated soil.

Mr. Coffman made reference to an AquaScience Engineers report related to tank removal at the former Mobil site, which, Ms. Hugo requested a copy be forwarded to her and one has been sent. In the AquaScience Engineers report, dated May 27, 1986, it is stated that soils in the tank pit from removed tanks had a motor fuel smell and each tank pit contained water with floating product. The tank pits were excavated to a depth of twelve feet and groundwater was encountered at approximately twelve feet. The report states that the waste oil tank and one 5,000 gallon gasoline tank had holes in them when removed and inspected. Although water was pumped from the tank pits and disposed of, there is no record that any further investigation to evaluate and delineate the impact the leaking waste oil and gasoline tanks to groundwater at the former Mobil Station. Since the tanks were leaking directly into the tank pit which was in direct communication with the aquifer, it is probable there has been impact to the groundwater from these tanks. This may be a source of the gasoline hydrocarbons detected in groundwater samples from well MW-2 at the ARCO site, which is closest to the former Mobil site and upgradient from any possible ARCO source of gasoline hydrocarbons.

Ms. Hugo asked whether ARCO intended to install offsite groundwater recovery wells to be used in the groundwater remediation system. ARCO replied that once the system was operational and data had been studied, ARCO would evaluate the need for and feasibility of additional recovery wells. ARCO stated that permitting and gaining access for installation of offsite recovery wells which would then need to be piped into the groundwater remediation system could prove to be very difficult and take several months to accomplish.

Upon conclusion of discussion concerning Station 374, Ms. Valli Voruganti departed the meeting. The following three ARCO sites, 2112, 2169, and 4931 were discussed by Ms. Susan Hugo, Mr. Michael Whelan, and Mr. John Vargas and Ms. Diane Lundquist.

**ARCO Station 2112, 1260 Park St., Alameda, California.**

An Interim Remedial Action Plan was issued on August 27, 1992. This document discusses the remediation approach chose for this site. The System will include vapor extraction and groundwater pump and treat technologies. Previous vapor extraction and aquifer test data were to identify the number of required wells. All permits have been received at this time and construction is scheduled for October 19, 1992. The Remedial System is scheduled for start-up in February 1993.

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An additional recovery well and down-gradient well were installed. Petroleum hydrocarbons in the down-gradient well were not observed.

Ms. Hugo asked if ARCO had a contingency plan to address potential breakdown of the system. GeoStrategies Inc., has prepared an Operation and Maintenance Plan. This Plan provides that any pumps or system equipment will be repaired. Telemetry will also be added to the system so that GeoStrategies Inc., will be notified as soon as there are system problems. Groundwater piping and the system enclosure slab have been designed for secondary containment.

Ms. Hugo asked how long the system will be operating. Soil clean-up should be relatively short and the anticipated groundwater clean-up duration as outlined in the schedule for this site is for five years. After an initial start-up and operation period, a better estimate may be possible.

Ms. Hugo asked about the number of carbon beds and their replacement schedule. The groundwater system will include two 180 pound carbon vessels. Calculations for the minimum replacement periods are included in the Interim Remedial Action Plan. The Operation and Maintenance Plan provides for monitoring the influent and effluent air and water systems on a routine schedule. Carbon will be replaced once breakthrough has been detected in the first carbon beds.

**ARCO Station 2169, 899 W. Grand Ave., Oakland, California.**

The Remediation Implementation schedule will be revised to accommodate delays in completing the onsite assessment. The original schedule assumed this assessment would be performed concurrently with the tank removal project. However, due to space limitations at the site caused by the large quantity of stockpiled soils during tank replacement, ARCO anticipates a 4-month delay in completing the assessment. This delay pushes back the estimated system start-up date to September 1, 1993.

The onsite assessment is to be completed at this time, Vapor extraction and aquifer tests have been completed. These remedial technologies appear to be feasible. The report documents these activities in a draft. Diesel was reported for previous groundwater samples at this site. Laboratory results for other ARCO stations have erroneously reported diesel. ARCO plans to do additional analysis to confirm whether diesel has impacted the soil and groundwater. A draft report has been submitted to ARCO. The report of onsite work and a Work Plan for offsite assessment will be issued in late October to early November, 1992.



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**ARCO Station 4931, 731 W. MacArthur Blvd., Oakland, California.**

Mr. Vargas and Ms. Lundquist discussed the progress at his site. The Remedial System underground and enclosure has been completed. Equipment installation and start-up will be performed once all equipment is received from the manufacturers. GeoStrategies Inc., anticipated start-up by the first part of November.

A passive product skimmer has been installed in Well W-8. A products pump will be installed in this well when the system is operational. Recovery Well are AR-1 was installed adjacent to Well A-4 to address product in the well. A report documenting the installation of additional recovery wells is in draft. This report is scheduled for completion by the end of October early November.

Ms. Hugo wanted TOG and lead analyzed for four-quarters to verify that groundwater has not been impacted. ARCO agreed to analyze Well A-2 for these constituents.

Following this discussion, the meeting adjourned for lunch at 12:15 p.m.

After the lunch break, at approximately 1:15 p.m., the meeting resumed with Mr. Michael Whelan, Ms. Susan Hugo, and Mr. Joel Coffman present.

**ARCO Station 6148, 5131 Shattuck Ave., Oakland, California.**

Discussion began with Ms. Hugo granting approval for work proposed in work plan (RESNA, September, 1992) for installation of additional onsite monitoring wells. The report containing the results to the additional well installations is due to the ACHCSA on February 1, 1993. There was a question concerning the recently submitted 2nd quarter monitoring report for the site in which floating product was reported at 0.5 feet in one of the monitoring wells. Mr. Coffman said he would check into the matter as this was probably a mistake. A follow-up letter with corrected tables showing the correct product thickness of 0.05 feet was sent to Ms. Hugo.

Ms. Hugo requested that one of the wells (MW-1 through MW-3) be tested for all waste oil constituents, including TOG, TPHd, metals, VOCs, and 8270 for a minimum of 4 consecutive quarters. If no waste oil constituents are found, analysis for those constituents will be discontinued.

Ms. Hugo agreed it would be reasonable to decommission two of the three closely spaced monitoring wells, MW-1 through MW-3, located near the former waste-oil tank at the southwestern corner of the site. The wells to be decommissioned will be determined upon installation of the proposed additional monitoring wells and using data from 1 quarter of

monthly monitoring to establish the gradient at the site. The well to remain will be the well determined to be downgradient from the former waste-oil tank.

A work plan with proposed location of a groundwater recovery well, possible vapor extractions wells (if applicable), an aquifer test, and a vapor extraction test (if applicable) will be prepared and submitted to ACHCSA by **March 1, 1993**. The report documenting work in this work plan will be submitted to ACHCSA by **August 1, 1993**. A Remedial Action Plan (RAP) will begin to be prepared for the site as soon as results from the aquifer test and/or vapor extraction test are evaluated. The RAP is due to ACHCSA by **September 1, 1993**. The design and permitting of an interim remediation system at the site will begin in July, 1993, and is due to be completed by **October 1, 1993**. This schedule will allow for construction bids to be evaluated by **November 1, 1993**, which will provide a **February 15, 1994** construction date for the interim remediation system. This schedule will place start-up of the system at **April 1, 1994**.

Following discussion of this site, Mr. Scott Seery of the ACHCSA joined Ms. Susan Hugo, Mr. Michael Whelan, and Mr. Joel Coffman for the remainder of the site discussions.

**ARCO Station 6041, 7249 Village Pkwy, Dublin, California.**

Discussion concerning this site began with Mr. Seery providing some groundwater monitoring data from sites on different corners of the same intersection as the ARCO 6041 site. These sites included Unocal, BP, and Oil Changers (former Shell Oil Station) sites. The information provided by Mr. Seery showed monitoring wells on the northern perimeter (closest to ARCO site) that had or continue to have much higher levels of gasoline hydrocarbons in groundwater than wells on the ARCO site. As ARCO had presented the ACHCSA a work plan in which part of the proposed work was installation of offsite groundwater monitoring wells, it was agreed the offsite portion of the work would not proceed until some of the other responsible parties were contacted by the ACHCSA. ARCO would proceed with the onsite portion of work proposed in the work plan, which included a records search to identify potential offsite sources of hydrocarbons, installation of additional onsite monitoring wells, installation of onsite vapor extraction wells, and performing a vapor extraction test. The report for this portion of the work is due to ACHCSA on **February 1, 1993**.

Following three months monitoring of the new and pre-existing monitoring wells at the site to determine optimal positioning of a groundwater recovery well (RW-1), RW-1 will be installed and an aquifer test will be performed at the site. The report with results of the installation of the recovery well and aquifer test is due to ACHCSA on **August 1, 1993**. A Remedial Action Plan is due to the ACHCSA on **September 1, 1993**, and design of an

interim remediation system for the site is to be completed by **November 1, 1993**. With this schedule, construction bids should be secured by **December 1, 1993**, which will allow for construction of the interim remediation system to begin on **February 1, 1994**. This schedule provides for start-up of the system by **April 1, 1994**.

The offsite investigation was not placed on any definite schedule during the meeting due to information provided by Mr. Seery which showed the properties across the streets from the ARCO site (Unocal, BP, and former Shell sites) with groundwater impacted by greater concentrations of gasoline constituents than the ARCO site. This information concerning these properties across the street also indicated some of these sites with monitoring wells which are located near property boundaries (closest to the ARCO site) which contain groundwater with relatively high concentrations of gasoline constituents. Based on this information, it was agreed that any offsite investigation by ARCO will be delayed as other parties appear more likely to be responsible for offsite groundwater which may be impacted by gasoline constituents.

**ARCO Station 2152, 22141 Center St., Castro Valley, California.**

Discussion concerning this site was centered upon starting dates for construction of the soil vapor extraction system at the site. Mr. Whelan explained that the actual date for beginning construction at the site could vary anywhere from **mid-November 1992 to mid-January 1993**, due to internal ARCO factors associated with closing the station. Due to the amount of trenching to be performed for installation of remediation system piping, the site may have to be completely closed. In any event, the latest date given by ARCO for start-up of the system is **March 15, 1993**.

Groundwater has continued to contain non-detectable concentrations of gasoline hydrocarbons over the last few quarterly monitoring episodes and offsite investigation is not warranted. The extent of soils impacted by gasoline hydrocarbons has been delineated onsite.

**ARCO Station 601, 712 Lewelling Blvd., San Leandro, California.**

Mr. Seery said the contract between the City of San Leandro and ACHCSA was being worked out and was almost finished. He said this site was still considered to be in the deposit/refund section of oversight within the ACHCSA and would be transferred to the local oversight program (LOP) as soon as ACHCSA was granted the contract by the City. He requested a check from ARCO for \$601.00 for time he has spent reviewing the project at his \$71.00/hour rate.

The response letter to Mr. Seery's letter of July 30, 1992 was discussed next. Mr. Seery wanted to have additional soil borings near the former waste-oil tank drilled and sampled for waste-oil constituents. He cited the high (287.1 ppm) lead content in samples previously collected from Boring B-6/MW-1 as rationale for this request. Mr. Whelan suggested we are proposing to stop any offsite migration of these compounds in groundwater with the proposed groundwater recovery system to be installed at the site and that ARCO would sample the perimeter well (MW-8) in the downgradient direction from the former waste-oil tank to ascertain that these compounds had not migrated to the site perimeter. It was pointed out that the soils at the site are very impermeable and migration of compounds from the former waste-oil tank would be very unlikely as evidenced by results from the ARCO vapor extraction test and the Aquifer test performed across the street from the site at the former Shell Station.

Mr. Seery would not agree with this proposal and asked that well MW-1, located near the former waste-oil tank be sampled and analyzed for waste-oil constituents. As this well has historically contained floating product, we explained that matrix interference would probably result. Discussion followed about laboratories as Mr. Seery stated that someone at Pace Laboratories had told him we could run analyses for halocarbons, metals, the 8270, and TOG without interference by the product in the well. It was agreed that this issue would be further explored. Mr. Seery stated that on some occasions, there was no product in well MW-1 but this had not coincided with our scheduled sampling dates. He suggested, and ARCO agreed to be ready to sample MW-1 on any occasion in which there is no product present.

ARCO suggested that we collect soil samples in proposed soil boring B-17, to be located in the southeast corner of the site, crossgradient from B-6/MW-1, and analyze them for lead content to establish background levels for lead at the site. This was suggested in response to Mr. Seery pointing out that B-6 contained lead at up to 130 ppm in samples collected below first-encountered groundwater at the site. As lead doesn't readily migrate downward through clays and silts, Mr. Whelan suggested this may be indicative of a regional problem with lead in soils.

Concerning Mr. Seery's assertion that ARCO may be required to investigate the deeper water-bearing zone for possible hydrocarbon impact, he stated this may be required in the future. He stated that boring logs from the site showed bioturbation and roots at depths up to 16-1/2 feet. Mr. Coffman pointed out that soil samples collected from the clay aquitard beneath the site contained nondetectable amounts of gasoline hydrocarbons and that according to the GeoStrategies report concerning the former Shell site across the street from the ARCO site, no deeper aquifer was encountered at depths up to 25 feet below ground surface.

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It was discussed that we would have the report of additional on and offsite investigation to Mr. Seery approximately 16 weeks from the date agreement was reached on scope of work to be performed and that this schedule may be altered due to city and other offsite encroachment concerns.

Discussion concerning the remediation schedule for this site included ARCO informing Mr. Seery of the fact that City Planning and Engineering Departments were requiring plans and specifications for the trench remediation system to be signed and stamped by a Professional Civil Engineer. ARCO also informed Mr. Seery that permitting delays can be expected due to the complex nature of the interim remediation system to be installed. These delays will move the anticipated start-up date for the system to the third quarter of 1993 and possibly into the fourth quarter 1993.

Discussion concluded with agreement that ARCO and Mr. Seery would speak again the week of October 5, 1992 concerning this site. The meeting was concluded at approximately 5:15 p.m.

Mr. Joel Coffman and Mr. Seery spoke on October 9, 1992 regarding ARCO's decision to proceed with drilling and sampling three soil borings in the vicinity of the former waste-oil tank, as Mr. Seery requested. These borings were drilled and sampled by RESNA on October 12, 1992 and samples from these borings will be analyzed for the waste-oil constituents as outlined in Table 2 of the Regional Water Quality Control Board's August 10, 1990 recommendations.

If you have any questions or comments concerning these minutes to the meeting, please call us at (408) 264-7723.

Sincerely,  
RESNA Industries Inc.



Joel Coffman  
Project Geologist

cc: Michael Whelan, ARCO Products Company  
Chris Winsor, ARCO Products Company  
John Meck, ARCO Legal Dept.  
John Jang, RWQCB  
Richard Hiatt, RWQCB  
John Vargas, GeoStrategies

October 12, 1992

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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:

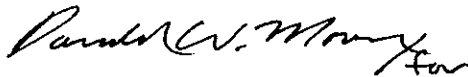
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1992; also included are projected site activities for the fourth quarter of 1992 and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

\*\*\*\*\*  
UST LEAK Date of Last Current  
SITE UPDATE Review/Update: 7/10/92 Date: 10/1/92  
\*\*\*\*\*

SITE IDENTIFICATION

Name: ARCO Products Company #2112 Case No.: \_\_\_\_\_  
Address: 1260 Park Street  
Street Number Street  
Alameda 94501  
City Zip Code  
Alameda Substance: Gasoline  
County

Local Agency: Alameda County Health Agency, Department of Environmental Health  
Regional Board: San Francisco Bay Region  
\*\*\*\*\*

LEAD STAFF PERSON: Susan Hugo  
\*\*\*\*\*

CASE TYPE:

    Undetermined     Soil Only   X   Ground Water     Drinking Water  
\*\*\*\*\*

STATUS (Date indicates when case moved into status)

<u>   </u>	No Action Taken	Date: _____
<u>  X  </u>	Leak Being Confirmed	Date: <u>January 1990</u>
<u>  X  </u>	Preliminary Site Assessment Workplan Submitted	Date: <u>January 1990</u>
<u>  X  </u>	Preliminary Site Assessment Underway	Date: <u>July 1990</u>
<u>  X  </u>	Pollution Characterization	Date: <u>September 1992</u>
<u>  X  </u>	Remediation Plan	Date: <u>September 1992</u>
<u>   </u>	Remedial Action Underway	Date: _____
<u>   </u>	Post Remedial Action Monitoring	Date: _____
<u>   </u>	Case Referred to Regional Board	Date: _____
<u>   </u>	Case Referred to Dept. of Health Services	Date: _____
<u>   </u>	Case Closed	Date: _____

\*\*\*\*\*

MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. In September 1991, four monitoring wells, one recovery well, and three vapor extraction wells were installed on-site. In October 1991, A vapor extraction pilot test was performed. In December 1991, a 4 hour step/24 hour constant-rate aquifer test was performed. In January 1992, four vapor extraction wells were installed on-site. One down-gradient, off-site monitoring well and one on-site recovery well was installed in June 1992. Refer to the attached page for a chronological listing of reports issued for this site.  
\*\*\*\*\*

RECENT ACTIVITIES/FINDINGS:

Third quarter, 1992 ground-water monitoring and sampling were performed. Issued a Quarterly Monitoring/Well Installation Report presenting second quarter, 1992 sampling and well installation results. Issued a Remedial Action Plan. Issued a report documenting the installation of four additional vapor extraction wells and aquifer test. Released remedial system construction for bidding. Awarded remedial system construction contract.  
\*\*\*\*\*

ANTICIPATED ACTIVITIES:

Quarterly ground-water monitoring and sampling will continue. Issue Quarterly Monitoring Report documenting third quarter, 1992 sampling results. Begin construction of the remedial system.  
\*\*\*\*\*

SS #2112

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.
Continuing Site Assessment/ Quarterly Monitoring Report	January 27, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	April 10, 1992	GeoStrategies Inc.
Aquifer Test/Vapor Well Installation Report	August 27, 1992	GeoStrategies Inc.
Interim Remedial Action Plan	August 27, 1992	GeoStrategies Inc.
Quarterly Monitoring/Well Installation Report	September 25, 1992	GeoStrategies Inc.





3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
Phone: (408) 264-7723  
Fax: (408) 264-2435

92 SEP 26 11:47

September 23, 1992  
0923shgo

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94612

Subject: Proposed Agenda for Meeting at your office on September 30, 1992.

Dear Ms. Hugo:

We have prepared this proposed agenda for the meeting we have scheduled at your office on September 30, 1992. This meeting will be for discussion of sites under direction of Mr. Richard Hiatt and Mr. John Jang of the Regional Water Quality Control Board (RWQCB). We understand these RWQCB personnel may not be able to attend the entire meetings but may be able to stop by for site specific discussions. A separate meeting to discuss sites overseen by Mr. Eddie So of the RWQCB will have to be scheduled at another date as he has other agencies involved with many of his sites.

Items we would like to discuss include the following: ongoing assessment at the sites, offsite access problems and possible offsite contributing polluters, schedules for remediation, and other issues as they arise in discussing the sites. If you have any questions or comments concerning this proposed agenda, please call us at (408) 264-7723.

Sincerely,  
RESNA Industries, Inc.

Joel Coffman  
Project Geologist

cc: Michael Whelan, ARCO Products Company  
John Jang, RWQCB  
Richard Hiatt, RWQCB  
John Vargas, GeoStrategies

September 21, 1992

Proposed Agenda for September 30, 1992 ACHCSA Meeting

	<u>ARCO Station</u>	<u>ACHCSA Staff</u>	<u>RWOCSB Staff</u>	<u>Cnsltnt</u>
	# 276, 10600 MacArthur Blvd.	Barney Chan	Richard Hiett	RESNA
	# 2035, 1001 San Pablo, Albany	Barney Chan	Richard Hiett	RESNA
00 - 10:30	# 2107, 3310 Park Blvd.	Barney Chan	Richard Hiett	RESNA
	# 2185, 9800 E. 14th St.	Barney Chan	Richard Hiett	RESNA
	# 4494, 566 Hegenberger Rd.	Barney Chan	Richard Hiett	RESNA
	# 374, 6407 Telegraph Ave.	Susan Hugo	Richard Hiett	RESNA
	# 2112, 1260 Park St., Alameda	Susan Hugo	Richard Hiett	G/Ryan
30 - 12:00	# 2169, 899 W. Grand Ave.	Susan Hugo	Richard Hiett	G/Ryan
	# 4931, 731 W. MacArthur	Susan Hugo	Richard Hiett	G/Ryan
	# 6148, 5131 Shattuck Ave.	Susan Hugo	Richard Hiett	RESNA
	# 6041, 7249 Village Pkwy, Dublin	Scott Seery	Richard Hiett	RESNA
	# 2152, 22141 Ctr. St., Castro Valley	Scott Seery	Richard Hiett	RESNA
1:00 - 3:00	# 601, 712 Lewelling Bd., San Leandro	Scott Seery	John Jang	RESNA

4/23/92  
Called Don Moore (Seacov)  
received OK 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:

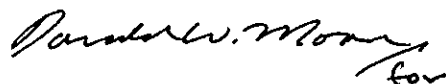
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the first quarter of 1992; also included are projected site activities for the second quarter of 1992 and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



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

June 12, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
ARCO Service Station No. 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

- \* Completed design and equipment selection for the proposed remedial system.
- \* Prepared Remedial Action Plan.

Anticipated Work to be Performed in the Next Month:

- \* Ground-water sampling and monitoring for the second quarter, 1992 will be performed.
- \* Issue Aquifer Test/Well Installation Report to ARCO, ACHA, and RWQCB.
- \* Secure encroachment permits from the City of Alameda for the proposed off-site recovery well and monitoring well.
- \* Apply for POTW permit for water discharge from the proposed groundwater treatment system.
- \* Apply for an air discharge permit from the Bay Area Air Quality Management District for the proposed vapor extraction system.
- \* Issue draft Remedial Action Plan to ARCO.



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

RECEIVED  
MAY 23 1992  
QUALITY CONTROL BOARD  
(510) 352-4800

May 21, 1992

01-0090  
Dudde  
n

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
ARCO Service Station No. 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

- \* Issued Quarterly Monitoring Report for the first quarter, 1992 to ARCO, ACHA, and RWQCB.

Anticipated Work to be Performed in the Next Month:

- \* Ground-water sampling and monitoring for the second quarter, 1992 will be performed.
- \* Issue Aquifer Test/Well Installation Report to ARCO, ACHA, and RWQCB.

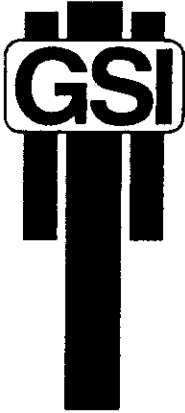
Please call if you have any questions concerning this letter.

Sincerely,

*John F. Vargas*  
John F. Vargas  
Senior Geologist

JFV:rcm

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail)  
Mr. Eddy So, RWQCB, San Francisco Bay Region



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

May 21, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
ARCO Service Station No. 0414  
3000 Shattuck Ave./Ashby  
Berkeley, California 94705

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 Previous Month's Activities:

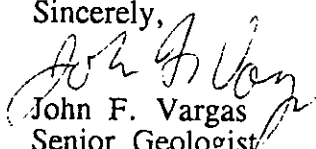
- \* Ground-water sampling and monitoring for the first quarter, 1992 was performed.

Anticipated Work to be Performed in the Next Month:

- \* Issue draft Quarterly Monitoring Report for the first quarter, 1992 to ARCO.

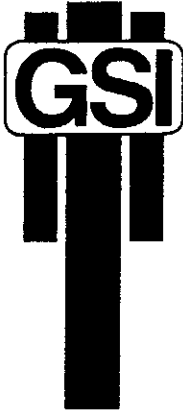
Please call if you have any questions concerning this letter.

Sincerely,

  
John F. Vargas  
Senior Geologist

JFV:rcm

cc: Mr. Mohammed Janjua, City of Berkeley, Department of Environmental Health and Human Services. (certified mail)  
Mr. Eddy So, RWQCB, San Francisco Bay Region.



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

May 21, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
Former Thrifty Oil Company Site  
ARCO Service Station No. 5387  
20200 Hesperian Blvd.  
Hayward, California 94541

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 Previous Month's Activities:

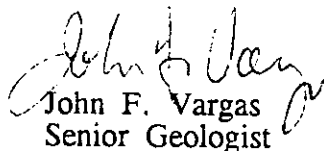
- \* Issued draft Quarterly Monitoring Report for the first quarter, 1992 to ARCO.

Anticipated Work to be Performed in the Next Month:

- \* Issue Quarterly Monitoring Report for the first quarter, 1992 to ARCO, ACHA, and RWQCB.

Please call if you have any questions concerning this letter.

Sincerely,

  
John F. Vargas  
Senior Geologist

JFV:rcm

cc: Ms. Pamela Evans, Alameda County Health Agency, Department of  
Environmental Health (Certified Mail)  
Mr. Eddy So, RWQCB, San Francisco Bay Region.



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

May 21, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
ARCO Service Station No. 2169  
889 West Grand Avenue  
Oakland, California 94607

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 May, 1992.

Status of Previous Month's Activities:

- \* Tank replacement project and soil aeration have been completed.
- \* Sent letter to Alameda County Flood Control and Water Conservation District in response to their letter concerning the report required to be submitted to them as a condition of their drilling permit. The report will be submitted upon completion of the drilling project.

Anticipated Work to be Performed in the Next Month:

- \* Issue draft Well Installation Report documenting the installation of four ground-water monitoring wells and one ground-water extraction well on-site and soil and ground-water sample analyses.
- \* Installation of three on-site vapor extraction wells and an additional recovery well in the vicinity of the present tank complex. Installation of the vapor extraction wells was delayed due to the tank replacement project.

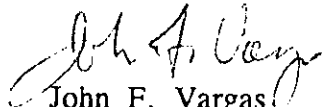


**GeoStrategies Inc.**

ARCO Products Company  
May 21, 1992  
Page 2

Please call if you have any questions concerning this letter.

Very truly yours,

  
John F. Vargas  
Senior Geologist

JFV:rcm

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of  
Environmental Health. (certified mail)  
Mr. Eddy So, RWQCB, San Francisco Bay Region.



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

May 21, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update  
ARCO Service Station No. 4931  
731 West MacArthur Boulevard  
Oakland, California 94611

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 Previous Month's Activities:

- \* Continuing tank replacement project.
- \* Received an amendment to building permit for the demolition of on-site restroom building.
- \* Received conditional approval of groundwater discharge permit (POTW) - final approval is on hold pending initial start-up of remedial system.
- \* Applied for encroachment permits with the City of Oakland for the proposed up-gradient monitoring well on MacArthur Boulevard.

Anticipated Work to be Performed in the Next Month:

- \* Issue Vapor Extraction Test Report to ARCO, ACHA, and RWQCB.
- \* Ground-water sampling and monitoring will be performed for the second quarter, 1992.
- \* Completion of tank replacement project.
- \* Secure encroachment permit from the City of Oakland.
- \* Installation of three on-site ground-water recovery wells and one off-site, up-gradient monitoring well.

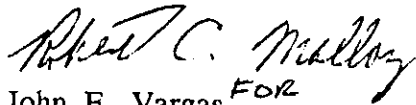
GeoStrategies Inc.

ARCO Products Company  
May 21, 1992  
Page 2

- \* Installation of E-Z Horner product skimmer in Well A-8 to recover floating product.
- \* Initiate construction of the remediation system trenching.

Please call if you have any questions concerning this letter.

Sincerely,



John F. Vargas <sup>FOR</sup>  
Senior Geologist

JFV:rcm

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of  
Environmental Health (Certified Mail).  
Mr. Eddy So, RWQCB - San Francisco Bay Region

\*\*\*\*\*  
UST LEAK Date of Last Current  
SITE UPDATE Review/Update: 1/10/92 Date: 4/10/92  
\*\*\*\*\*

SITE IDENTIFICATION

Name: ARCO Products Company #2112 Case No.: \_\_\_\_\_  
Address: 1260 Park Street  
Street Number Street  
Alameda 94501  
City Zip Code  
Alameda Substance: Gasoline  
County

Local Agency: Alameda County Health Agency, Department of Environmental Health  
Regional Board: San Francisco Bay Region

\*\*\*\*\*  
LEAD STAFF PERSON: Susan Hugo  
\*\*\*\*\*

CASE TYPE:

Undetermined  Soil Only  Ground Water  Drinking Water  
\*\*\*\*\*

STATUS (Date indicates when case moved into status)

No Action Taken Date: \_\_\_\_\_  
 Leak Being Confirmed Date: January 1990  
 Preliminary Site Assessment Workplan Submitted Date: January 1990  
 Preliminary Site Assessment Underway Date: July 1990  
 Pollution Characterization Date: \_\_\_\_\_  
 Remediation Plan Date: \_\_\_\_\_  
 Remedial Action Underway Date: \_\_\_\_\_  
 Post Remedial Action Monitoring Date: \_\_\_\_\_  
 Case Referred to Regional Board Date: \_\_\_\_\_  
 Case Referred to Dept. of Health Services Date: \_\_\_\_\_  
 Case Closed Date: \_\_\_\_\_

\*\*\*\*\*  
MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. In September 1991, four monitoring wells, one recovery well, and three vapor extraction wells were installed on-site. In October 1991, A vapor extraction pilot test was performed. In December 1991, a 4 hour step/24 hour constant-rate aquifer test was performed. Please refer to the attached page for a chronological listing of reports issued for this site.

\*\*\*\*\*  
RECENT ACTIVITIES/FINDINGS:

Four vapor extraction wells were installed on-site in January. Quarterly ground-water monitoring and sampling were performed. Issued report documenting the installation of four monitoring wells, three vapor extraction wells, one ground-water recovery well and the results of a vapor extraction test.

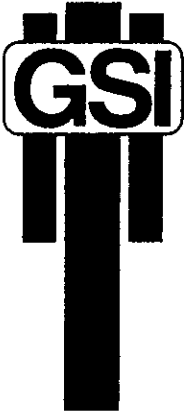
\*\*\*\*\*  
ANTICIPATED ACTIVITIES:

Quarterly monitoring and sampling will proceed on schedule. Issue a Remedial Action Plan and reports documenting the above mentioned activities.

\*\*\*\*\*

SS #2112

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.
Continuing Site Assessment/Quarterly Monitoring Report	January 27, 1992	GeoStrategies Inc.

**GeoStrategies Inc.**2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

February 28, 1992

CALIFORNIA DEPARTMENT OF WATER

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

MAR 5 - 1992

QUALITY CONTROL BOARD

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

- \* Quarterly Monitoring/Sampling was performed.

Anticipated Work to be Performed in the Next Month:

- \* Final report presenting the results of the Aquifer test and four additional vapor extraction wells forthcoming.

Please call if you have any questions concerning this letter.

Sincerely,

A handwritten signature in cursive script that reads 'John F. Vargas'.  
John F. Vargas

JFV:rcm

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail)  
Mr. Eddy So, RWQCB, San Francisco 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:

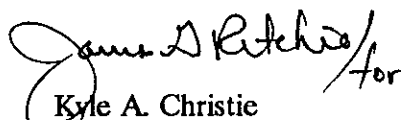
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1991; also included are projected site activities for the first quarter of 1992 and 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,

  
Kyle A. Christie  
Environmental Engineer

Attachments: ARCO Facility QSRs





SS #2112

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

January 31, 1992

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

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

December 18, 1991: Performed 4-hour Step/24-hour Constant-rate Aquifer test utilizing groundwater recovery well AR-1.

January 2, 1992: Installed four additional vapor extraction wells on-site.

January 28, 1992: Issued final Continuing Site Assessment/Quarterly Monitoring report.

Anticipated Work to be Performed in the Next Month:

\* Final report presenting the results of the above mentioned Aquifer test and four additional vapor extraction wells forthcoming.

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas

JFV/tdl

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail)



**GeoStrategies Inc.**

2140 WEST WINTON AVENUE  
HAYWARD, CALIFORNIA 94545

(510) 352-4800

November 26, 1991

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

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

\* November 19, 1991: Draft report sent to ARCO presenting the results of the installation of four groundwater monitoring wells, Three vapor extraction wells, and one groundwater recovery well. This report also includes the results of a soil vapor extraction pilot test. ✓

Anticipated Work to be Performed in the Next Month:

\* Final report presenting the above mentioned work forthcoming

Please call if you have any questions concerning this letter.

Sincerely,

  
John F. Vargas

JFV/tdl

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail)

ARCO Products Company  
17315 Studebaker Road  
Cerritos, California 90701-1488  
Telephone 213 404 5300

Mailing Address: Box 6411  
Artesia, California 90702-6411



91 OCT 31 11:27

October 29, 1991

Mr. Paul M. Smith  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
80 Swan Way, Room 200  
Oakland, California 94621

Certified Mail

RE: UST PERMITS

Dear Mr. Smith:

Due to a major reorganization of Arco Products Company, our Northern California office has been closed. Consequently, all environmental matters and permit coordination are now being handled in the Environmental, Health, and Safety Department in the Los Angeles office.

Our files for Arco facilities in Alameda County contain the attached locations. According to our records, please note the following relative to these locations:

- All Underground Storage Tank permit fees are current.
- A and B forms have been submitted to your office and copies are on file in our office of these forms.
- The following two locations have physical Underground Storage Tank permits issued for a five-year duration, expiring in 1993:

Arco Facility #4494  
566 Hegenberger Rd.  
Oakland

Arco Facility #6002  
6235 Seminary Ave.  
Oakland

Mr. Smith  
October 29, 1991  
Page 2

It is my understanding that the remaining 16 facilities require an inspection to be done by your office in order for an Underground Storage Tank permit to be issued. Would you please provide me with scheduled dates for inspections to be done at these facilities by your agency.

For future reference, please send all Underground Storage Tank correspondence, renewals, and permits to my attention at the above address.

If you have any questions regarding these matters, I would be pleased to respond to them. I can be reached at 213/404-5347.

I look forward to hearing from you.

Sincerely,

A handwritten signature in cursive script that reads "Judy L. Mason". The signature is written in black ink and is positioned above the typed name.

Judy L. Mason  
Permit Coordinator  
Environmental, Health, and Safety

Attachment

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	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00771	JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA 94550	PINE/RINCON AVE	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	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 N ROOSHAN	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	WISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL	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  
 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>Sgr</i>	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00771	JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA 94550	PINE/RINCON AVE	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>Sgr</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 N ROOSHAN <i>Sgr</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 SERDY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	WISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL <i>Sgr</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  
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

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

September 13, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Mr. Frank Wells  
ARCO Products Company  
P.O. Box 6411  
Artesia, CA 90702-6411

**RE: Inspection Reports on ARCO Facilities**

Dear Mr. Wells:

Per ARCO's request, the Alameda County Department of Environmental Health, Hazardous Materials Division is forwarding copies of reports generated from inspection of ARCO facilities by this office. These enclosures include inspection reports for August, 1991.

Copies of the generator, Hazardous Materials Management Plan and underground storage tank inspection reports that representatives from this office routinely leave with the dealer/operator at the site will be forwarded to ARCO on a monthly basis.

Please contact me at (510) 271-4320 if you have any questions concerning this letter.

Sincerely,

Susan L. Hugo  
Hazardous Materials Specialist

enclosures

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Howard Hatayama, State Department of Health Services  
Lester Feldman, San Francisco Bay RWQCB  
Mark Thompson, Alameda County District Attorney's Office  
✓ Files

ALAMEDA COUNTY, DEPARTMENT OF  
ENVIRONMENTAL HEALTH  
Hazardous Materials Inspection Form

II, III

Today's Date 8/1/91

Site ID # \_\_\_\_\_ Site Name AM-PM ARCO

Site Address 1260 Park Ave.

City Alameda Zip 94501 Phone 865-7335

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:

Gasoline Service Station with Mini-Market  
4 underground tanks at the site  
1-10,000 gal Super unleaded (double walled)  
2-10,000 gal Unleaded (with coron sensor)  
1-10,000 gal Regular (X76S detector)  
Tanks were installed 1990  
Leak detector tested - 11/20/90 passed.  
Written monitoring plan on site  
Precision test report for 2 tanks (10/4/90)  
on site. Report for other 2 tanks not available.  
Permit application forms "A & B" for the 4 tanks not available.  
Needs:  
1) Keep all monitoring records for that underground tanks on site for three years (tank tests, leak detector tests)  
2) Provide the dept. with copies of tank permit forms A & B.  
3) Hazardous Materials Management Plan must be updated.

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(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<br>Semi-annual groundwater<br>One time soils                            |
|                               | 3) Daily Vadose<br>One time soils<br>Annual tank test                                   |
|                               | 4) Monthly Gndwater<br>One time soils   |
|                               | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/gndwater mon. |
|                               | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                         |
|                               | 7) Weekly Tank Gauge<br>Annual tank testing   |
|                               | 8) Annual Tank Testing<br>Daily Inventory   |
| 9) Other _____                |   |
| New Tanks                     | <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   |
|                               | <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: _____                   |   |

Rev 6/88

Contact: ROD SHAN

Title: OWNER

Signature: [Signature]

Inspector: \_\_\_\_\_

Signature: [Signature]

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 278-2971

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 FOLLOW-UP INSPECTION FOR 5-YEAR LIST PERMIT INSPECTION CONDUCTED ON 1/27/91.

THE DEMOR KEEPS THE FOLLOWING RECORDS

- ON-SITE:
- ① WRITTEN MONITORING PLAN (ALTHOUGH <sup>WITH</sup> INSUFFICIENT INFORMATION)
  - ② DAILY INVENTORY RECONCILIATION
  - ③ AGREEMENT BETWEEN ARCO and DEMOR TO KEEP MONITORING RECORDS ON-SITE FOR (3) YEARS.
  - ④ TAKES a 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 <sup>SITE-SPECIFIC</sup> 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 RELEASES.

II, III

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Slids. 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(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. 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                                   |
|                               | <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: _____                   |   |

Rev 6/86

Contact: JIMIE ABADAY  
 Title: REALTOR  
 Signature: James Abada

Inspector: MARIA ANTONIETA B. MENDOZA  
 Signature: Maria Antonieta B. Mendosa

12

80 Swan Way, #200  
Oakland, CA 94621  
(415) 271-4320

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

## Hazardous Materials Inspection Form

white -env.health  
yellow -facility  
pink -files

II, III

Site ID # 779 Site Name ARC0 PROLAM #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:** (3) PROVIDE OUR OFFICE WITH AS-BUILT DOCUMENTS WHICH INCLUDE THE FOLLOWING INFO: LOCATIONS OF ALL TANKS, PIPINGS, etc. MATERIALS USED FOR TANK & PIPING (BRANDS), LOCATIONS & TYPE OF CONTINUOUS MONITORING EQUIPMENTS. INCLUDE PROBE & PROBE POSITIONS.

ANNUAL

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.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. MAT'L

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. Off-Site Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N)
- 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<br>Semi-annual groundwater<br>One time soils                            |
|                               | 3) Daily Vadose<br>One time soils<br>Annual tank test                                   |
|                               | 4) Monthly Groundwater<br>One time soils  |
|                               | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/gndwater mon. |
|                               | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                         |
|                               | 7) Weekly Tank Gauge<br>Annual tank testing   |
|                               | 8) Annual Tank Testing<br>Daily Inventory   |
|                               | 9) Other _____  |
| New Tanks                     | <input type="checkbox"/> 7. Pre-Test Tank Test 2643<br>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<br>Date: _____                           |
|                               | <input type="checkbox"/> 14. As Built 2635<br>Date: _____                               |

Rev 6/88

II, III

Contact: JAIME ABADAN  
 Title: DEALER  
 Signature: Jaime Abadan

Inspector: MARVA ANTONIETTE B. MAJORA  
 Signature: Marva Antoniette B. Majora

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 # \_\_\_\_\_ Site Name Albany Hill Mini Mart Today's Date 8/23/91

Site Address 800 San Pablo Ave

City Albany Zip 94706 Phone 526-8170

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:

Inspected facility with Larry Sets. Has 4 U&T's on site. All four tanks have been tested by Larry Zimmerman. Tank results are tight, we will get results at our office next week. Red jacket line leak detector test to be done week of 8/26/91. Mr. Sikand has daily reconciliation records on site. But, has not sent any quarterly summary reports to our agency. Product hose from Diesel pump #9 has leak under nozzle. Required action: ① Repair or replace hose at diesel pump #9. Clean off the island area which the dispenser sits. This to be done in 7 days. ② Submit quarterly summary reports for previous two quarters. And futures quarterly submitted timely to our office. (Submit within 10 days) ③ Have tank and pipeline test results sent to our office. ④ Submit Red Jacket Line Leak detector test results in 10 days. Methanol Leak Alert monitoring system was

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(g)
- 17. Certification 25534(f)
- 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 solt                          |
|  | 3) Daily Vadose One time solt Annual tank test                                 |
|  | 4) Monthly Gndwater One time solt  |
|  | 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 _____   |
| New Tanks  | <input type="checkbox"/> 7. Precs Tank Test Date: 2643                         |
|  | <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 Date: 2711 |  |
| <input type="checkbox"/> 14. As Built Date: 2635     |  |

Rev 6/88

Contact: MOHINDER S. SIKAND  
 Title: owner  
 Signature: [Signature]

Inspector: F. Young Fong  
 Signature: [Signature]

Once all above corrections are done a 5 year underground tank permit will be issued.

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 # \_\_\_\_\_ Site Name Albany Union Unit Today's Date 8/27/91

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)

Site Address 800 San Pablo Ave.  
 City Albany Zip 94 Phone \_\_\_\_\_

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.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(f)
- \_\_\_ 18. Exemption Request? (Y/N) 25536(b)
- \_\_\_ 19. Trade Secret Requested? 25538

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

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<br>Semi-annual groundwater<br>One time soils                            |
|  | 3) Daily Vadose<br>One time soils<br>Annual tank test                                   |
|  | 4) Monthly Gndwater<br>One time soils   |
|  | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/gndwater mon. |
|  | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                         |
|  | 7) Weekly Tank Gauge<br>Annual tank testing   |
|  | 8) Annual Tank Testing<br>Daily inventory   |
|  | 9) Other _____  |
| New Tanks                                | ___ 7. Precs Tank Test 2643<br>Date: _____  |
|  | ___ 8. Inventory Rec. 2644  |
|  | ___ 9. Soil Testing 2646  |
|  | ___ 10. Ground Water. 2647  |
| ___ 11. Monitor Plan 2632                |   |
| ___ 12. Access, Secure 2634              |   |
| ___ 13. Plans Submit 2711<br>Date: _____ |   |
| ___ 14. As Built 2635<br>Date: _____     |   |

Comments:

The nozzle for the diesel dispenser has been replaced and the area around the island cleaned up.

Rev 6/88

Contact: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Inspector: Lesly S. A.  
 Signature: [Signature]

II, III

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



91 SEP 13 10 12:15  
FBI 12:15

September 11, 1991

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

RE: ARCO Service Station #2112 -- 1260 Park Street, Alameda,  
California

Dear Ms. Hugo:

This letter is submitted in response to your letter of August 29, 1991 concerning remediation activities at this gasoline service station.

It is clear from the recent exchange of correspondence between ARCO and the Alameda County Health Care Services, Department of Environmental Health that there is some confusion and misunderstanding about what information has been provided to the County by ARCO concerning the removal of underground storage tanks and contaminated soil at this facility and the remediation of soil and groundwater. For ARCO's part, I apologize if we are responsible for any of this confusion.

Our review of the files on this facility, which are described in detail below, indicates that ARCO has attempted to provide all of the information requested by the County in a timely fashion and in accordance with all appropriate regulatory requirements. I trust that this letter and the attached information will end any confusion concerning ARCO's activities at this facility and that we will be able to move ahead quickly with the task of remediating any remaining contamination.

As a starting point, I would like to point out that as the recent exchange of correspondence demonstrates, ARCO had provided to the County by April 1991 all the information requested or needed to approve the proposed Workplan prepared by GeoStrategies, Inc., dated January 2, 1991 (see Attachment 1). The requested information was provided to Ms. Katherine Chesick orally



in April of this year and in written form in May. Our position, which has not changed, is that we were prepared in January 1991 to implement the Workplan but did not do so because the County had not yet reviewed the Workplan.

Listed below, with reference to the numbered sections of your August 29 letter, is ARCO's response to the specific issues which you have raised:

1. Chronology

In your August 29 letter, you state that the "Summary of communication" at page 1, paragraph 3, of my letter of August 26, 1991 is "accurate." By this, I take it to mean that you agree that Kyle Christie of ARCO informed Ms. Katherine Chesick of the County in early April 1991 that no changes to the proposed Workplan were anticipated and that ARCO was prepared to begin to implement the Workplan as soon as the County approved it.

Let me take this opportunity to summarize the chronology of the events that occurred thereafter. At Ms. Chesick's request, ARCO provided the County with the Trench Excavation/Soil Aeration Report prepared by GeoStrategies, Inc., dated May 3, 1991 (see Attachment 2) describing the soil samples taken from the piping excavation on the north side of the facility. As stated in my August 26 letter, Ms. Chesick contacted Keith Bullock of Gettler-Ryan, the contractor for site remediation work at the facility, on May 20, 1991 and informed him that the Workplan had not yet been reviewed. On June 17, 1991, Mr. Bullock spoke with Mr. Lowell Miller at the County and asked him who was responsible for approving the Workplan. Mr. Miller indicated that he was not certain of the individual to whom the project was assigned and said that he would call Mr. Bullock back to let him know. On August 5, 1991, Mr. Bullock spoke with you and asked if the Workplan had been approved. You informed him that you had recently sent out a letter on this site.

As of early April 1991, approximately five months ago, ARCO informed the County that no changes to the Workplan were anticipated and, as a result, was awaiting the County's approval to begin the Workplan's implementation. The additional information you have now requested in your letters of August 3 and 29, 1991 was not brought to ARCO's attention until those letters were received and ARCO was unaware that additional information would be so requested.

2. 1987 Removal of Waste Oil Tank and Associated Contaminated Soil

In your letter of August 29, you indicate that information on the method and location of disposal of any hazardous substances and any contaminated soils at the Station was not

provided to the County by ARCO until August 26, 1991. This statement is not accurate.

The method and location of disposal of any tanks, piping and contaminated soils excavated in 1990 and 1991 are described in the November 7, 1990 GeoStrategies, Inc., Report (see Attachment 3) and in the May 1991 Report. The 550 gallon waste oil tank removed in May 1987, as described in my letter of August 26, 1991, was properly disposed of as was the associated contaminated soil. I have provided you with the manifest forms for this disposal as well as the name of the scrap metal company which received the waste oil tank. The information on the removal of this tank and the associated soil was provided to the County at the time of removal and subsequently in 1989.

On June 8, 1987, Ellen Cianciaruli of ARCO wrote Ted Gerow at the County enclosing the soil sample test results from the excavation of the waste oil tank at the Station (see Attachment 4). In that letter, she stated:

"All soil removed has been hauled to a Class I dump site and the excavation backfilled with clean sand."

Subsequently, on September 28, 1987, Mr. S. Hetznecker of Brown & Caldwell, ARCO's contractor for the facility at that time, spoke by telephone with Mr. Ted Gerow of the Department (see Attachment 5). His notes of that conversation are as follows:

"According to information in the County file, specifically a letter dated June 16, 1987 from Ellen Cianciaruli of ARCO, says that the "dirty" soil was excavated and removed, an analysis shows the hole was excavated to cleanliness. Mr. Gerow says everything looks OK as far as the County goes. No further action at this point. His only question is: Will the site remain a service station?"

Clearly, the County had given its approval on the excavation and the information submitted. Subsequently, certain of these documents must have been misplaced by the County because on November 14, 1989, Greg Barclay, Project Branch Manager at Applied GeoStrategies, Inc. wrote to Mr. Ariu Levi at the County and provided the County with another set of the laboratory reports for the soil samples collected at the site in May 1987, another copy of the letter from Ms. Cianciaruli and a copy of the record of telephone conversation between Mr. Hetznecker and Mr. Gerow (see Attachment 6). Mr. Barclay asked Mr. Levi to call if he could be of any further assistance in this matter. No request for further information or documentation was made by the County. Since the waste oil tank was pulled more than four years ago, there has not

been any question as to whether the tank and associated contaminated soil were properly disposed of.

### 3. Piping and Aeration

You state in your August 29 letter that ARCO had not previously informed you, prior to my letter of August 26, 1991, that all piping at the facility had been removed. This is incorrect. The piping was removed in two stages. The first stage was described in the November 1990 Report. Plate 4 to that Report shows the location of the first stage of piping that was removed from the vicinity of the facility pump islands. Page 8 of that Report states:

"After aerated soils have been removed from the site, the remaining product piping on the north side of the site will be removed."

The May 1991 Report which describes the removal of the remaining piping from the north side of the facility states at page 2:

"Trenches were excavated to expose and remove existing fuel product lines."

These "existing fuel product lines" are shown in Plate 3 of the May 1991 Report. These reports, when read together, state that all the original piping was removed.

Your August 29 letter thanks ARCO for stating that no excavated soils were replaced in the ground. This point had been previously disclosed in the November 1990 and May 1991 Reports which state that excavated soil from the trenches was first stockpiled and sampled. Upon receipt of the chemical analyses, stockpiled soils were removed and transported to an appropriate disposal facility (November 1990 Report pp. 2-3; May 1991 Report pp. 3-4).

You next state that in your August 29 letter you have been "advised" that the BAAQMD was not notified twenty-four hours before the commencement of aeration of the excavated soil. To the contrary, Gettler-Ryan Inc., ARCO's consultant, provided notice to the District on August 9, 1990, twenty-four hours prior to the commencement of aeration pursuant to District Rule 8-40-403. Attachment 7 is a copy of Gettler's telephone log for August 9, 1990 indicating that such notice was made and a "Rapid Memo" to the Project File on the same subject. Further, the November 1990 Report, at page 3, states that the soils on site were aerated in compliance with District guidelines. No soils were aerated in connection with the removal of piping at the north side of the facility, as described in the May 1991 Report.

2672 (b)(3)

4. Hazardous Waste Manifests

ARCO has provided you with copies of the hazardous waste manifests for any tanks and associated ~~contaminated soil~~ removed from the facility. However, that Section 2652 of Title 23 of the California Code of Regulations does not require that hazardous waste manifests be submitted to the local agency. Section 2652(c)(4) merely requires an indication as to "whether a hazardous waste manifest[s] is utilized."

With regard to Condition No. 22 of the "closure permit," that ARCO supply the manifests within 60 days of receipt of sample results, I assume you are referring to the Underground Tank Closure/Modification Plan (see Attachment 8). You are correct that Section 22(c) of the Plan requests that ARCO forward to your office "TSD to Generator copies of wastes shipped and received." The manifests which were provided to you as an attachment to my August 26 letter confirmed that the hauler used to transport the contaminated soil from the facility was the hauler described in the Plan. I very much appreciate your courtesy in pointing out to me any additional information that ARCO needs to provide to the County. I mistakenly had thought that, based on your August 3 letter, you required these manifests to be submitted before you could review the Workplan.

5. Adequacy of Proposed Workplan

In your August 3 letter, you state that the Workplan submitted by ARCO is not "adequate" to fully define the extent of soil and groundwater contamination. In my letter to you of August 26, I explained that the Workplan proposes to include the installation of five onsite groundwater wells, three onsite vapor extraction wells and the performance of a vapor extraction test. Following the initial onsite groundwater monitoring, offsite wells may be installed if necessary to determine the extent of any dissolved contaminants. This assessment process is in keeping with the LUFT Manual (October 1989), as described in Section 7. below.

6. Purpose of Proposed Workplan

As the Workplan states, and as described in Section 5. above, its purpose is "to address the locations of known soil contamination" and "to provide groundwater-quality and potentiometric data for evaluating shallow ground-water flow direction and gradient." It is only after these data are generated that ARCO will be able to address many of the issues you have raised.

I now understand, based on your August 29 letter, that the proposed Workplan is approved subject to the conditions detailed on the last page of that letter, i.e., that the issues discussed on the bottom of page 2 and on pages 3 and 4 of your

August 3 letter be addressed in the development of a remediation plan.

As I mentioned above, I mistakenly believed that you required further information from ARCO in order to complete your review and approval of the Workplan. Now that we have confirmed that no further information was required, we will commence implementation of the Workplan.

7. Timing of Remediation

You describe as a "general rule" in your August 29 letter that site work in the form of assessment and remediation is to be implemented only after a workplan has been approved by the County. Your letter goes on to state, however, that if there is free product or dissolved product in the groundwater, ARCO "can and must" commence remedial action while it is in the process of obtaining approval from the County of its workplans.

I am uncertain as to the circumstances when this "exception" would apply. If you mean that ARCO must initiate remedial action prior to assessment or even approval of a workplan in all cases where there is any free product or dissolved product in the groundwater, then this exception is contrary to regulatory guidelines, practical limitations and good engineering practice.

To begin with, each site must be evaluated on a case-by-case basis. The LUFT Manual describes a "phased approach" to the investigation and cleanup of leaking underground fuel tank which is "tailored to the severity of each specific site" (LUFT Manual p. 9). The procedures set forth in the Manual "are intended to avoid unwarranted analysis while ensuring that adequate analysis is done to identify the extent of contamination problems" (LUFT Manual p. 2). An objective of the LUFT Manual is thus to prevent duplicative efforts that might result from proceeding with remediation without agency approval. Similarly, the Tri-Regional Recommendations anticipate that there will be a soil and groundwater investigation prior to remediation (p. 15 fig. 1).

The LUFT Manual goes on to state that the "cleanup of all contaminated soil and dissolved product in ground water is not always necessary to protect public health and the environment." (LUFT Manual p. 1). In some cases, free product or dissolved product will be left in place with a groundwater monitoring program to ensure the effectiveness of the remedial action (LUFT Manual p. 61). Surely, if the LUFT Manual contemplates that dissolved product or free product may be left in place, ARCO cannot be under an affirmative obligation to remove all free and dissolved product prior to approval of both its assessment and remediation plan.

There are additional reasons for obtaining local agency review before commencing remediation. Closure of an individual

site and that site's removal from the LUST computer file can only be granted by the State's Regional Water Quality Control Board (RWQCB). The RWQCB issues the closure decision based on the recommendations from the local agency. At "Category 3 sites" where there is known or suspected groundwater pollution or areas with shallow groundwater, as there is at this facility, the LUFT Manual requires consultation with the Regional Water Quality Control Board and responsible agencies "to determine required remedial action" (LUFT Manual p. 60). If the lead agency is not the Regional Board and the groundwater is threatened or affected, then the lead agency must consult with the appropriate Regional Board to ensure that the anticipated remedial action is consistent with the applicable water quality control plans and policies (LUFT Manual p. 60). It would be entirely inappropriate to proceed with remediation until receiving this consistency determination from the appropriate agency.

If the contamination presents an immediate threat to human health or safety, action should and will be taken by the operator. The LUFT Manual states that questions regarding "site health and safety hazards" should be asked and answered in the earliest stages of problem identification (LUFT Manual p. 12-13). If they exist, sources of possible hazardous vapor should be identified and eliminated. Similarly, the American Petroleum Institute Guide to the Assessment and Remediation of Underground Petroleum Releases, August 1989, also states that the "first step" in any site assessment of a petroleum release is to ascertain the immediate safety hazards (API Guide at p. 1). If there is a known release, the API Guide recommends that it be stopped and the hazards be mitigated (Figure 1 and Figure 17).

There are, of course, technical limitations to what can be accomplished at any given site in terms of immediate remediation where even a safety threat is present. As the API Guide points out, the "feasibility of liquid hydrocarbon removal is site specific and a function of the earth materials, hydrocarbon characteristics, and equipment limitations. In general, only part of the total original release volume is recoverable as a free liquid. Most skimming pumps require the accumulation of at least 1/8 inch of hydrocarbon in the well before they will operate" (API Guide pp. 41-43).

Remediation activities at a site are also technically complex and expensive. Engineering remedial systems without obtaining the proper amount of background information can lead to a wasted remedial approach and can actually make the problem worse by mixing distinct constituents, puncturing an aquifer or by altering the groundwater gradient. These examples are self evident and can only be avoided by sound engineering. Without aquifer testing, site hydrogeologic characteristics will not be easily understood and can waste our recovery efforts for both the dissolved constituents and floating product. Pumping rates,

aquifer transmissivity, area of influence need to be addressed so that the optimum recovery criteria can be reached. By over pumping an aquifer, additional geology can be affected which only increases the total impact to the site. Product only recovery systems (without groundwater extraction) can mask recovery efforts by capturing floating product very close to the individual recovery well. After the minor amount of floating product is captured, groundwater has a rebounding effect. By removing the weight of the floating product, groundwater equalizes (rebounds) with the release of the hydrostatic head and can push away the product surrounding the recovery well. Thus, product only recovery techniques can create the appearance of remediation without substantial results.

Many remediation activities, such as pumping groundwater or aeration, require the notification of other agencies, and in some cases the acquisition of waste discharge, air quality and other permits. These permits may not be available without agency approval of the contemplated remediation. In instances where there is a mixture of water and petroleum, there will almost certainly be delays associated with obtaining air quality and water discharge permits as well as practical problems associated with what to do with the water which is removed. Access to neighboring properties and city streets is often time-consuming. Remediation cannot be commenced without obtaining the appropriate governmental permits and access to private property.

Finally, it has been suggested that ARCO has been less than aggressive in pursuing the remediation of contamination at ARCO facilities. I do not think this characterization is accurate nor is it supported by the facts we have described in this or other situations. In January 1991, when the Workplan was submitted, we volunteered to proceed on parallel tracks with the implementation of the Workplan and the gathering of further information on the piping located on the north side of the facility. We were informed by the County that the Workplan would not be approved until the remaining piping had been removed. Even after the piping was removed and that information was transmitted to the County, review of the Workplan was delayed for a further four months. We are eager to proceed with the activities described in the Workplan and will keep you posted on our progress.

If you have any questions concerning this letter, please do not hesitate to contact me.

Sincerely,



Chuck Carmel  
Environmental Engineer

Enclosures

cc: John Meck, ARCO Products Company  
Chris Winsor, ARCO Products Company  
Lester Feldman, San Francisco RWQCB  
Howard Hatayama, State Department of Health Services  
Keith Bullock, Gettler-Ryan, Inc.  
Mark Thomson, Alameda County District Attorney's Office



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)

August 29, 1991

Mr. Chuck Carmel  
Environmental Engineer  
ARCO Products Company  
Box 5811  
San Mateo, CA 94402

Re: 1260 Park Street, Alameda, California-#2112

Dear Mr. Carmel:

I am in receipt of your August 26, 1991 letter with enclosures. I shall deal sequentially with each issue you raise.

1. Your Summary of communication at page 1, paragraph 3, is accurate.
2. In my August 3, 1991 letter, I requested information concerning the disposal of the waste oil tank and contaminated soils associated with the waste oil tank. You question "the need for these documents."

Title 23, Section 2652 provides that a report to the local agency shall be submitted which details the "method and location of disposal of the released hazardous substance and any contaminated soils". Until August 26, 1991, that information had not been provided the local agency.

3. You state, "all of the piping has been removed". As you know, the piping at this site was removed in phases. Thank you for including in your August 26, 1991 letter a definitive statement that all piping has been removed; such a declaration has not been provided in any report submitted to this office.

Thank you for supplying the billing invoices in response to our request for full documentation of the disposal of the soils.

Thank you for declaring, "no excavated soils were placed back into the ground".

Reference is made to the fact that these "soils were aerated on site". The District Attorney's Office has contacted the Bay Area Air Quality Management District. I am advised the

Letter to Mr. Chuck Carmel  
ARCO Products Company  
August 29, 1991  
Page two

Air District was never notified 24 hours before the commencement of aeration in violation of Regulation 8, Rule 40.

4. Thank you for supplying the manifests for the five underground tanks removed on 7/26/90.

When I reviewed your workplan, I also reviewed the entire file. A condition of the closure permit, #22, was that ARCO would supply the manifests within 60 days of receipt of sample results. As noted at point 2 above, Title 23, Section 2652, also requires the requested information.

Your letter suggests you believe I required the manifests "to be submitted before review of the workplan". Actually, as my August 3, 1991 letter states at page 1, "we have reviewed the proposal and note the following areas of concern".

As you know, the Alameda County District Attorney's Office is suing your company. I have been instructed to provide ARCO information so that it can come into compliance with the law. Rather than being challenged on the request for manifests, I rather thought you would appreciate the courtesy of my pointing out to you ARCO had failed to supply the manifests to this agency.

5. While I am pleased that ARCO has indicated that it will follow the LUFT guidelines as it assesses and remediates this site, I must remind you that the specific issues I mentioned in my 8/3/91 letter (starting at the bottom of page 2 and continuing half way down page 3) must be addressed before I will consider remediation complete.

I also wish to clarify the relationship between the LUFT manual and the Tri-Regional Recommendations issued by the San Francisco Bay Regional Water Quality Control Board and two other regional boards. The Tri-Regional Recommendations are "intended to expand and clarify and, in some cases, present alternatives to several areas addressed in LUFT", (Introduction Page 1, Paragraph 2, last sentence). Keeping this in mind, it is necessary to follow both LUFT and the Tri-Regional Recommendations.

Letter to Mr. Chuck Carmel  
ARCO Products Company  
August 29, 1991  
Page three

6. Your detailed comments regarding the proposed in-situ remediation using vapor extraction wells are consistent with the requirements of my letter. Thank you for clarifying areas of concern such as the expedient removal of any free product and the development of a remediation action plan with a time schedule for implementation which were not addressed in the proposed work plan.
7. In my August 3, 1991 letter, I wrote:

This department will oversee the assessment and remediation for this site. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. Please be advised that final concurrence by this office will depend on the extent to which the work done meets the requirements of this letter.

In his November 23, 1988 letter to ARCO's Kyle Christie, Steven R. Ritchie, Executive Officer of the California Regional Water Quality Control Board-San Francisco Bay Region, wrote:

The Regional Board is responsible for the oversight of soil and groundwater pollution cases which threaten or impact waters of the State...In some counties, local agencies are working with the Regional Board and are taking the lead role for case handling. Regardless of the level of oversight from agencies, you are responsible for the timely reporting, investigation, and cleanup of soil and groundwater pollution such that the beneficial uses of water of the State are protected, and appropriate policies complied with.

Because of the implications for this and other sites within the jurisdiction of the Alameda County Health Care Services Agency, there must be no misunderstanding between us on this issue.

This department will oversee assessment and remediation. As a general rule, site work in the form of assessment and remediation is to be implemented only after workplans have been approved by this department.

Letter to Mr. Chuck Carmel  
ARCO Products Company  
August 29, 1991  
Page four

However, ARCO must protect the beneficial use of the waters of the state from the contamination it caused. If the beneficial uses of state waters are endangered, ARCO can't use the inherent delay factor in the workplan preparation/approval process as an excuse to not protect our water. (Note: The same rule holds if there is a fire or explosive threat.)

For example, if ARCO has knowledge that there is free product at a given site or that there is dissolved product in a source of drinking water, ARCO can and must commence appropriate remedial actions while it is in the process of preparing and obtaining approval of the measures it has implemented.

This approach makes common sense. In appropriate cases, ARCO must be in a position of being able to protect its property, the property of others and water resources without waiting for the workplan preparation/approval process to be completed. Obviously, such work will have to be reviewed by this office after the fact. If the work is deficient, it will have to be done correctly. (Note: ARCO must, of course, also comply with any local permitting requirements.)

I encourage you to have Mr. Meck contact Mr. Thomson if ARCO feels it needs further clarification of this matter.

You inquire as to "written guidelines for ARCO to follow in performing assessment and remedial work". The guidelines include, but are not limited to, the following:

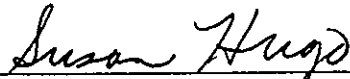
- 1) Chapter 6.7 of the Health and Safety Code
- 2) California Code of Regulations  
Title 23 Waters  
Chapter 3 Water Resources Control Board  
Subchapter 16 UST Regulations
- 3) The LUFT Manual
- 4) The Tri-Regional Recommendations
- 5) The Alameda County Water District Guidelines for Investigation and Remediation at Fuel Leak Sites
- 6) Directives from the California Regional Water Quality Control Board, San Francisco Bay Region

Letter to Mr. Chuck Carmel  
ARCO Products Company  
August 29, 1991  
Page five

With the supplemental information provided in your August 26, 1991 letter, I can approve your January 2, 1991 workplan on the following conditions:

- 1) The condition detailed at 5 above must be followed.
- 2) Reports documenting implementation of the workplan must contain the 14 points I detail in my August 3, 1991 letter.

Very truly yours,

  
\_\_\_\_\_  
Susan Hugo  
Hazardous Materials Specialist

cc: John Meck  
Mark Thomson  
Rafat A. Shahid  
Lester Feldman  
Howard Hatayama  
Keith Bullock

SH:shb



<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.



August 26, 1991

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

RE: Investigation of Soil and Groundwater Hydrocarbon Impact at ARCO  
Service Station #2112, 1260 Park Street, Alameda, CA

Dear Ms. Hugo:

This letter is submitted in response to your letter dated August 3, 1991 concerning the review of GeoStrategies, Inc. (GSI) Work Plan dated January 2, 1991. The responses to your letter are presented in the order in which they appear in your letter.

**"Through telephone conversation between Mr. Kyle Christie and a representative from this office.....This office was never informed subsequent to February 14, 1991 as to whether or not the workplan was to be revised."**

Kyle Christie called Ms. Cheswick of your office during early April, 1991 to inform her that all soil samples from the piping excavation were non-detectable and therefore no changes to the workplan were warranted and ARCO was prepared to implement the work. Ms. Cheswick concurred but stated she wanted to review the report prior to approving the workplan. The report was provided to the ACHD on May 3, 1991. On May 20, 1991 Keith Bullock of Gettler-Ryan was contacted by Ms. Cheswick and informed the workplan had not yet been reviewed and therefore was not approved and also she was no longer going to be supervising this project and did not know who would be supervising it in the future. ARCO is still awaiting approval of the 1/2/91 workplan.

**"A waste oil tank was removed on May, 1987.....Manifest for the waste oil tank....have not been submitted to this office.**

78 JUN 28 02 00V 16



8/28  
ARCO Products Company  
2000 Alameda de las Pulgas  
Mailing Address: Box 5811  
San Mateo, California 94402  
Telephone 415 571 2400

W. P. S. D. AUG 28 1991



W = L  
Comments:  
8/26 ARCO Ltr response  
to ACHD 8/3 Ltr.

RECEIVED  
AUG 27 1991  
BUILDING DEPARTMENT

RAH

01

August 26, 1991

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

RE: Investigation of Soil and Groundwater Hydrocarbon Impact at ARCO  
Service Station #2112, 1260 Park Street, Alameda, CA

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"A waste oil tank was removed on May, 1987.....Manifest for the waste oil tank....have not been submitted to this office.

8/26/91

According to ARCO records, a 550 gallon waste oil tank was removed on or about May 29, 1987. The hazardous waste manifest forms for both the liquids and soils removed are attached to this letter. It is our understanding that hazardous waste manifest forms were not required for the waste oil tank however, ARCO has records that show that the waste oil tank was destroyed by S&G, a scrap metals company, located in Oakland, CA. It is not clear why the need for these documents which pertain to a tank removal over 4 years ago should delay your review and approval of the 1/2/91 workplan. Ms. Cheswick never indicated that she wanted ARCO to submit these manifests or that it was necessary to submit these documents in order to review and approve the workplan.

**"Contamination of up to 21,000ppm TPH.....It is unclear if all the piping associated with the former five underground storage tanks have been removed at this time. Disposition of all the stockpiled soil generated at this site from the removal and installation of the underground storage tanks and piping was not fully documented. Did any stockpiled soil go back into the ground?"**

As described in the GeoStrategies Report dated May 3, 1991 provided to your office, all of the piping has been removed. The disposition of the soil from the tank and piping excavation and removal was documented in GSI reports dated November 7, 1990 and May 3, 1991. All of the soils were aerated on site and disposed at either the Redwood sanitary landfill in Novato or at the Laidlaw landfill in Kern County. No excavated soils were placed back into the ground. Please find attached paid ARCO invoices from Laidlaw Environmental Services and Dillard Trucking, Inc. that document when and where all excavated soils were disposed.

**"Manifests for the five underground storage tanks removed on 7/26/90 and contaminated soil hauled off site have not been submitted to this office"**

Attached to this letter are the manifest forms for the five underground storage tanks. Again, it is not clear why these manifests should have

8/26/91

impeded review of the workplan. Ms. Cheswick never mentioned that they needed to be submitted before review of the workplan.

**"The work plan submitted to this agency on January 4, 1991 is not adequate to fully define the extent of soil and groundwater contamination."**

To date only soil borings have been performed at this site. As described in the LUFT manual the standard procedure following discovery of onsite soil contamination involves determining the distance to groundwater, the groundwater gradient and the presence of groundwater contamination. These LUFT requirements are established through the installation of onsite groundwater monitoring wells. Following this necessary initial onsite groundwater monitoring step, offsite wells may be installed if necessary to determine the extent of any dissolved contaminants. The 1/2/91 workplan as proposed includes the installation of five onsite groundwater wells, three onsite vapor extraction wells and the performance of a vapor extraction test. It is difficult to understand your comment that the workplan does not address the extent of soil and groundwater contamination when it is clear that to date no groundwater data has been generated because of the lack of approval of the 1/2/91 workplan. The determination of the extent of contamination must start with the performance of the 1/2/91 workplan which is imperative to document the presence, character, and concentration of any groundwater contaminants as well as the flow direction. This information would then be used to guide any further investigations.

**"The overall effectiveness of the proposed in-situ remediation using vapor extraction wells should be verified by an appropriate monitoring program....."**

As proposed in the GSI work plan, a vapor extraction test will be performed that will determine the area of influence and the system's overall effectiveness as a remedial approach. Following the completion of the assessment and vapor extraction test, and the determination of any groundwater contamination and any necessary groundwater pump tests, a remedial action plan (RAP) will be developed that will include an approximate time schedule for the RAP to be implemented. To move

8/26/91

forward, however, toward the implementation of a RAP, it is imperative that the 1/2/91 workplan be performed without any further delay. After the installation of the monitoring wells, any free product will be removed on a weekly basis up to the time when an automated extraction system is installed. The remedial plan will include the determination of aquifer characteristics and the capture zone of the extraction system.

**"This department will oversee the assessment and remediation for this site. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. Please be advised that final concurrence by this office will depend on the extent to which the work done meets the requirements of this letter."**

This is the first time ARCO has been advised by any agency within Alameda County that ARCO has the right to implement remedial actions prior to agency approval of the workplan. To date it has been our understanding that in the case of the subject site the Alameda County Environmental Health Department had to approve all workplans prior to their implementation.

As described above to date only soil borings have been performed at this site. It is necessary at this time to install monitoring wells to establish the criteria required by the LUFT manual. As such, although your letter indicates that ARCO "...may implement remedial actions before approval of the workplan...", in accordance with LUFT it is necessary to establish the character and extent of the any groundwater contamination before initiating remedial action. ARCO will therefore initiate implementation of the 1/2/91 workplan following your approval. Furthermore, also as described in LUFT, if and when groundwater contamination is confirmed and if free product is identified ARCO will implement free product recovery measures.

Since this seems to be a change in Alameda County Health Department policy it would be helpful to have the following areas clarified: (a) does this program apply to all sites within the ACHCS's jurisdiction, (b) does this program apply to all aspects of site assessment and remediation or

8/26/91

just "remedial actions" as stated in your letter, (c) is a workplan necessary to file if work can proceed prior to Agency approval and (d) rather than receiving comments about a certain aspect of an investigation or remedial plan after its implementation, does the County have written guidelines for ARCO to follow in performing assessment and remedial work.

If the Alameda County Environmental Health Department policy allows completion of assessment work in addition to "remedial actions" prior to workplan approval please advise me as soon as convenient as ARCO will proceed immediately with implementation of the workplan as originally proposed. Please don't hesitate to call me at (415) 571-2469 if you have any questions regarding this letter.

Sincerely,



Chuck Carmel  
Environmental Engineer

cc: John Meck, ARCO Products Company  
Chris Winsor, ARCO Products Company  
Lester Feldman, San Francisco RWQCB  
Howard Hatayama, State Department of Health Services  
Keith Bullock, Gettler-Ryan Inc.  
Mark Thomson, Alameda County District Attorney's Office

enclosures

HAZARDOUS WASTE MANIFEST LOG

SITE - SS# 2112

1260 PARK

ALAMEDA CA

WASTE OIL TANK

<u>1987</u>	<u>Date of</u>	<u>Manifest #</u>	<u>Quantity</u>
<u>1st Qtr.</u>	<u>Manifest</u>		
2nd Qtr.	5/29/87	87027029	40 G x .00417 = 3.75 T
	6/1/87	87027028	14 Y x .8428 = <u>11.80 T</u>
			15.55 T
3rd Qtr.			
4th Qtr.			
Total 1987			

13417

BA 694

P.O. 3742

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **CIAD19811166994**  
 Manifest Document No. **01010101**

2. Page 1 of 1  
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**Arco Petroleum**  
**2000 Alameda De La Pulgas, San Mateo, CA 94403**

*FACILITY: 88 2113  
 1260 PARK, ALAMEDA*

4. Generator's Phone: **415 571-2407**

5. Transporter 1 Company Name: **CROSBY AND OVERTON, EMT**  
 6. US EPA ID Number: **ICAD19811461064**

7. Transporter 2 Company Name: \_\_\_\_\_  
 8. US EPA ID Number: \_\_\_\_\_

9. Designated Facility Name and Site Address  
**Solvent Service**  
**1021 Berryessa Rd.**  
**San Jose, CA 95131**

10. US EPA ID Number: \_\_\_\_\_

A. State Generator's ID: \_\_\_\_\_  
 B. State Transporter's ID: \_\_\_\_\_  
 C. State Transporter's ID: \_\_\_\_\_  
 D. Transporter's Phone: **415-633-0336**  
 E. State Transporter's ID: \_\_\_\_\_  
 F. Transporter's Phone: \_\_\_\_\_  
 G. State Facility's ID: \_\_\_\_\_  
 H. Facility's Phone: **(408) 286-6446**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	No.	Type			
a. Hazardous Waste Liquid N.O.S. ORM-E NA 9189	0102	DM	0.00910	G	State: 222 EPA/Other RCRA: _____
b. _____					State: _____ EPA/Other: _____
c. _____					State: _____ EPA/Other: _____
d. _____					State: _____ EPA/Other: _____

*cc: Hooks,*

J. Additional Descriptions for Materials Listed Above  
 11 a) Waste Oil Sludge and water  
 70% Emulsified Sludge  
 30% Oil

*from W.O. Tank  
 removal*

K. Handling Codes for Waste Listed Above  
 a. \_\_\_\_\_  
 b. \_\_\_\_\_  
 c. \_\_\_\_\_  
 d. \_\_\_\_\_

15. Special Handling Instructions and Additional Information  
 Wear protective clothing and eye wear

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: **K.M. SCHULTHEIS**  
 Signature: *K.M. Schultheis*  
 Month Day Year: \_\_\_\_\_

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: **Mark A. Lane**  
 Signature: *Mark A. Lane*  
 Month Day Year: **05/19/87**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Month Day Year: \_\_\_\_\_

19. Discrepancy Indication Space  
 \_\_\_\_\_

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
 Printed/Typed Name: **Sandra Clinton**  
 Signature: *Sandra Clinton*  
 Month Day Year: **06/01/87**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7550  
**87027029**  
 GENERATOR  
 TRANSPORTER  
 FACILITY

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **CIAD191811166994**  
 Manifest Document No. **01010101**

2. Page 1 of 1  
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**Arco Petroleum**  
**2000 Alameda DeLa Pulgas, San Mateo, CA 94403**  
*FACILITY: 55#230*  
*1260 PARK ALAMEDA*

4. Generator's Phone (213) **571-2407**

5. Transporter 1 Company Name **CROSBY AND OVERTON, EMI**  
 6. US EPA ID Number **CIAD1918114611064**

7. Transporter 2 Company Name  
 8. US EPA ID Number

9. Designated Facility Name and Site Address  
**Casmalia Resources**  
**H.T.U. Rd.**  
**Casmalia, CA 93429**  
 10. US EPA ID Number **CIAD020748125**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit (W/L/V)
	No.	Type		
a. <b>Hazardous Waste Solid N.O.S. ORM-E HA 9189</b>	0101	11	000118	
b.				
c.				
d.				

*Flash point*  
**GENERATOR COPY**  
 Return To Generator

15. Special Handling Instructions and Additional Information  
**Wear protective clothing and eye protection**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
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Printed/Typed Name **K.M. SCHULTHEIS** Signature *K.M. Schulteis* Month Day Year **10/29/87**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name **Dov Olsen** Signature *Dov Olsen* Month Day Year **10/29/87**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
 Printed/Typed Name **Casmalia Resources** Signature *Genis Fraby Genis Fraby* Month Day Year **10/10/87**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650  
 GENERATOR  
 TRANSPORTER  
 FACILITY

87027028



**Movement of Fixed Assets**

Date of transaction: 5/14/87 Date prepared: 7/7/87

Type of movement (check one)

- Scrap
- Sale
- Result of inventory
- Transfer
- Condemnation
- Transfer to C.P.
- Casualty, fire, loss etc.
- Abandonment
- Lease termination
- Dismantling
- Repurchase

**RECEIVED**  
**DEC 15 1987**  
**REAL ESTATE/C&M**

<b>From</b>	Facility/cost center number <u>SS# 2112</u>	Name of location <u>AM/PM</u>	
	Street address <u>1260 PARK BLVD</u>	City <u>ALAMEDA</u>	State <u>CA</u>
<b>To</b>	Facility/cost center	Name of location <u>CROSBY } OVERTON</u>	
	Street address <u>8430 ANELIA ST</u>	City <u>OAKLAND</u>	State <u>CA</u>

AFC number and ledger number

Detailed description of transaction or a list of assets involved	Mfg. I.D. or serial number or property sequence number	Quantity	Amount
<u>WASTE OIL TANK - 550 GAL</u>		<u>1</u>	
<u>TANK REMOVED FROM GROUND AND SCRAPPED BY CONTRACTOR</u>			
<u>SEE CERTIFICATE OF SCRAP - S+G, Oakland</u>			
<u>Not on 9/87 PP&amp;E</u>			

Issued by: Ellen C. Conner Issuing location: A-F. Region Approved by: K.M. Schmitt

BY: Non: Blue - to Property Accounting for processing  
 Pink - retained in file of issuing location  
 Canary - to be retained as receipt by receiving party, if any

# S&G

Buyers and Processors of Scrap Metals

## CERTIFICATE OF SCRAP

S & G Alloys and Metals hereby certifies to Crosby and Overton  
EMI that:

The storage tanks removed from the facility at 1260 Park St.  
were transported to S & G Alloys and Metals, 774 High St., Oakland  
Ca: 94601, on 5-14-87, were crushed and disposed of as scrap.

Should you have any further information, please call 415-261-6970

Thank You,

  
Steve Glucoft

RECEIVED  
DEC 15 1987  
REAL ESTATE

90281039  
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

**UNIFORM HAZARDOUS WASTE MANIFEST**

Generator's US EPA ID No. **C A C 0 0 0 2 4 3 5 9 3 0 0 0 0 2**  
 Manifest Document No. **0 0 0 0 2**

2. Page 1 of 1  
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**ARCO**  
**P. O. Box 5811, San Mateo, CA 94402**

A. State Manifest Document Number  
**90281039**

4. Generator's Phone ((419) 571-2434/571-2428)

B. State Generator's ID  
**H Y H Q J 6 - 0 1 5 6 6 0**

5. Transporter 1 Company Name  
**H & H Ship Service Company**

C. State Transporter's ID  
**102574**

6. US EPA ID Number  
**C A D 0 0 4 7 7 1 1 6 8**

D. Transporter's Phone  
**(415) 543-4835**

7. Transporter 2 Company Name

E. State Transporter's ID

8. US EPA ID Number

F. Transporter's Phone

9. Designated Facility Name and Site Address  
**H & H Ship Service Company**  
**220 China Basin Street**  
**San Francisco, CA 94107**

G. State Facility's ID  
**C A D 0 0 4 7 7 1 1 6 8**

H. Facility's Phone  
**(415) 543-4835**

10. US EPA ID Number

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  
**RESIDUE GASOLINE TANK**  
**NON-RCRA HAZARDOUS WASTE SOLID**

12. Containers No. Type  
**0 0 1 T P**

13. Total Quantity  
**1 0 0 0 0**

14. Unit Wt/Vol  
**P**

I. Waste No.  
 State **512**  
 EPA/Other

b.

State  
 EPA/Other

c.

State  
 EPA/Other

d.

State  
 EPA/Other

J. Additional Descriptions for Materials Listed Above  
**PUMPED OUT 10,000 gallon tank last containing gasoline. Tank inerted with dry ice for transport.**

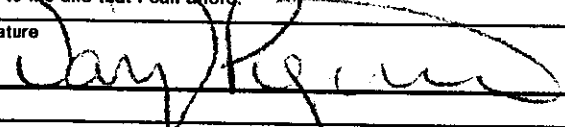
K. Handling Codes for Wastes Listed Above  
**03**

15. Special Handling Instructions and Additional Information  
**JOB #5106**  
**APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.**

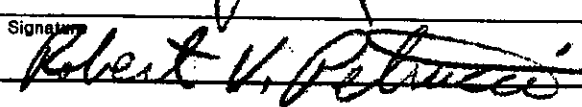
JOB SITE: **ARCO STATION, #2112**  
**1260 Park Street**  
**Alameda, California**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name  
**Daryl V. Pierzina**

Signature  
  
 Month Day Year  
**10 7 21 61 91 0**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name  
**ROBERT V. PETRUCCI**

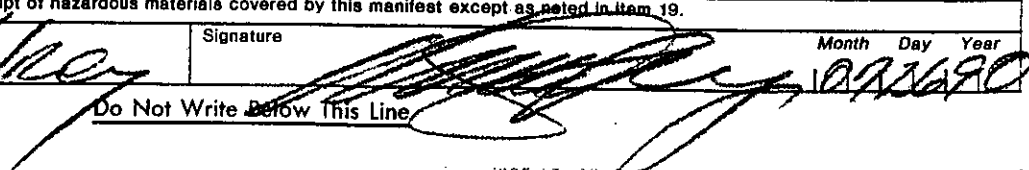
Signature  
  
 Month Day Year  
**10 7 21 61 91 0**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name

Signature  
 Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
 Printed/Typed Name  
**Cleveland Walker**

Signature  
  
 Month Day Year  
**10 7 21 61 91 0**

Please print or type. Form designed for use on elite (pitch typewriter).

**UNIFORM HAZARDOUS  
WASTE MANIFEST**

Generator's US EPA ID No. **C A C 0 0 0 2 4 3 5 9 3 0 0 0 0 3**  
Manifest Document No. **0 0 0 0 0 3**

2. Page 1 of 1  
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**ARCO  
P. O. Box 5011, San Mateo, CA 94402**

A. State Manifest Document Number  
**90281040**

4. Generator's Phone **(415) 571-2434/571-2428**

B. State Generator's ID  
**HYH036-015660**

5. Transporter 1 Company Name  
**H & H Ship Service Company**

6. US EPA ID Number  
**C A D 0 0 4 7 7 1 1 6 8**

C. State Transporter's ID  
**103597**

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone  
**(415) 543-4835**

9. Designated Facility Name and Site Address  
**H & H Ship Service Company  
220 China Basin Street  
San Francisco, CA 94107**

10. US EPA ID Number  
**C A D 0 0 4 7 7 1 1 6 8**

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID  
**C A D 0 0 4 7 7 1 1 6 8**

H. Facility's Phone  
**(415) 543-4835**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type  
13. Total Quantity  
14. Unit Wt/Vol  
15. Waste No.

a. **RESIDUE GASOLINE TANK  
NON-RCRA HAZARDOUS WASTE SOLID**

State **512**  
EPA/Other

b. **RESIDUE GASOLINE TANK  
NON-RCRA HAZARDOUS WASTE SOLID**

State **512**  
EPA/Other

c.

State  
EPA/Other

d.

State  
EPA/Other

J. Additional Descriptions for Materials Listed Above  
**PUMPED OUT 6,000 gallon and 4,000 gallon tanks  
last containing gasoline. Tanks inerted with dry  
ice for transport.**

K. Handling Codes for Wastes Listed Above  
a. **01** b. **01**  
c. d.

15. Special Handling Instructions and Additional Information  
**JOB #5106** **JOB SITE: ARCO STATION, #2112  
1260 Park Street  
Alameda, California**  
**APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
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Printed/Typed Name **DARYL VALENZUELA** Signature **Daryl Valenzuela** Month Day Year **07 26 90**

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name **JORGE L. HERNANDEZ** Signature **Jorge L. Hernandez** Month Day Year **07 26 90**

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
Printed/Typed Name **Clayton Valley** Signature **Clayton Valley** Month Day Year **07 26 90**

90281040

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8902; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550  
 90281041

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No: **CAC0002435930101014**  
 Manifest Document No. **0101014**

2. Page 1 of 1  
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**ARCO**  
**P. O. Box 5811, San Mateo, CA 94402**  
 4. Generator's Phone **(415) 571-2434/571-2428**

A. State Manifest Document Number  
**90281041**

B. State Generator's ID  
**NYHQ36-019660**

5. Transporter 1 Company Name  
**H & H Ship Service Company**  
 6. US EPA ID Number **CAD004771168**

C. State Transporter's ID  
**106084**

D. Transporter's Phone  
**(415) 543-4835**

7. Transporter 2 Company Name  
 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address  
**H & H Ship Service Company**  
**220 China Basin Street**  
**San Francisco, CA 94107**  
 10. US EPA ID Number **CAD004771168**

G. State Facility's ID

H. Facility's Phone **(415) 543-4835**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type  
 13. Total Quantity  
 14. Unit Wt/Vol

15. Waste No.

a. **RESIDUE GASOLINE TANK**  
**NON-RCRA HAZARDOUS WASTE SOLID**

**0101 TIP 0161010 P**

State **512**  
 EPA/Other

b. **RESIDUE GASOLINE TANK**  
**NON-RCRA HAZARDOUS WASTE SOLID**

**0101 TIP 0141010 P**

State **512**  
 EPA/Other

c.  
 d.

State  
 EPA/Other

J. Additional Descriptions for Materials Listed Above  
**PUMPED OUT 6,000 gallon and 4,000 gallon tanks**  
**last containing gasoline. Tanks inerted with dry**  
**ice for transport.**

K. Handling Codes for Wastes Listed Above  
 a. **01** b. **01**  
 c. d.

15. Special Handling Instructions and Additional Information  
**JOB #5106**  
**APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.**

**JOB SITE: ARCO STATION, #2112**  
**1260 Park Street**  
**Alameda, California**

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Printed/Typed Name  
**Daryl Pierzina**

Signature  
  
 Month Day Year  
**10 7 26 90**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name  
**DOMINCO WILLIAMS**

Signature  
  
 Month Day Year  
**10 7 26 90**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name

Signature  
 Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
 Printed/Typed Name  
**Charles Valley**

Signature  
  
 Month Day Year  
**09 26 90**

Do Not Write Below This Line

2112

DILLARD TRUCKING, INC.  
P.O. BOX 218

PAGE: 01

BYRON CA 94514  
(415) 634-6850

DATE: 03/19/91

RECEIVED

INVOICE NO: 00722

MAR 20 1991

ACCOUNT NO: 00001

K.A. CHRISTIE

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO CA 94402

JOB#: 0001/08 ARCO STATION #2112  
FROM: ARCO 2112/ALAMEDA  
TO: REDWOOD SANITARY LAN  
COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	MANIFEST #	DESCRIPTION	UNITS	RATE	AMOUNT
03/14/91	13312	-00	91368			5.000 Hrs	65.6900	328.45 ✓
						5.000 Hrs		328.45
						1.000 Lds		328.45
					SUBTOTL TRANSPORT			
					SUBTOTL			

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>K.A. Christie</i>			3/25/91
K A. Christie			

WORK AUTHORIZED PRIOR TO 4/1/91  
THIS WAS REMAINING SOIL FOR OLD  
PRODUCT LINE EXCAVATION

PLEASE PAY THIS AMOUNT

328.45

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 01

BYRON

CA 94514

DATE: 01/21/91

RECEIVED INVOICE NO: 00537

JAN 23 1991 ACCOUNT NO: 00001

K.A. CHRISTIE

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

JOB#: 0001/35 BLANKET 07-045  
FROM: ARCO 2112/ALAMEDA  
TO: 6SX/BUTTONWILLOW  
CONDY: 85-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	MANIFEST #	DESCRIPTION	UNITS	RATE	AMOUNT
01/15/91	13224	-00	188681		NON HAZ 3604	23.420 Tns	40.0000	936.80 ✓
						23.420 Tns		936.80
						1.000 Lds		936.80

SUBTOTL TRANSPORT  
SUBTOTL

ACCT	COST CENTER	FAC #	TYPE
8491	J232	2112	Z1
Approved: <i>K.A. Christie</i>			2/4/91
K. A. Christie			

KAC AUTHORIZED GOTTLIEB-REAN TO  
HIRE DILLARD BUT DILLARD SENT ME  
INVOICES TO SAVE COSTS.

PLEASE PAY THIS AMOUNT

936.80

RECEIVED

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 01

DEC 31 1990

BYRON

CA 94514

K.A. CHRISTIE

DATE: 12/27/90

INVOICE NO: 00465

ACCOUNT NO: 00001

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

JOB#: 0001/35 BLANKET 07-045  
FROM: ARCO/ALAMEDA  
TO: GSX/BUTTONWILLOW  
COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT	TAG	TRK	MANIFEST #	DESCRIPTION	UNITS	RATE	AMOUNT
12/18/90	10199	-00	187785		NON HAZ 3220		✓ 24.720 Tns	40.0000	988.80
12/18/90	12385	-00	187779		NON HAZ 3218		✓ 24.610 Tns	40.0000	984.40
12/18/90	12923	-00	187786		NON HAZ 3213		✓ 24.750 Tns	40.0000	990.00
12/18/90	12928	-00	187787		NON HAZ 3216		✓ 24.830 Tns	40.0000	993.20
12/18/90	13047	-00	187774	13	NON HAZ 3208		✓ 23.970 Tns	40.0000	958.80
12/18/90	13210	-00	187771		NON HAZ 3214		✓ 22.630 Tns	40.0000	905.20
12/18/90	13568	-00	187783		NON HAZ 3219		✓ 24.720 Tns	40.0000	988.80
12/18/90	13781	-00	187776		NON HAZ 3207		✓ 23.370 Tns	40.0000	934.80
12/18/90	13800	-00	187777		NON HAZ 3209		✓ 24.900 Tns	40.0000	996.00
12/18/90	14026	-00	187773		NON HAZ 3210		✓ 23.840 Tns	40.0000	953.60
12/18/90	14143	-00	187784		NON HAZ 3212		✓ 24.920 Tns	40.0000	996.80
12/18/90	14881	-00	187781		NON HAZ 3211		✓ 23.550 Tns	40.0000	942.00
12/18/90	14906	-00	187775		NON HAZ 3215		✓ 23.920 Tns	40.0000	956.80
12/18/90	3204	-00	187782		NON HAZ 3217		✓ 24.930 Tns	40.0000	997.20
12/18/90	LOADER	-00	ADL CHG			LOADER AND OPERATOR			800.00
12/19/90	13057	-00	187819	13	NON HAZ 3222		✓ 23.600 Tns	40.0000	944.00
12/19/90	STANDBY		187819		NON HAZ 3222		1.50 Hrs	50.0000	75.00
12/19/90	13211	-00	187820		NON HAZ 3223		✓ 22.910 Tns	40.0000	916.40
12/19/90	STANDBY		187820		NON HAZ 3223		1.50 Hrs	50.0000	75.00

SUBTOTL TRANSPORT  
SUBTOTL

386.170 Tns 15,446.80  
16.000 Lds 16,396.80

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>[Signature]</i>			2/5/91
K. A. Christie			

WORK AUTHORIZED PRIOR TO ISSUANCES  
OF MOMC'S TO MANAGEMENT,

PLEASE PAY THIS AMOUNT 16,396.80



DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 01

BYRON

CA 94514

RECEIVED  
NOV 23 1990  
K.A. CHRISTIE

DATE: 11/23/90

INVOICE NO: 00390

ACCOUNT NO: 00001

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

*on call*

JOB#: 0001/23 BLANKET #07-045  
FROM: ARCO, PARK/ENSANEL  
TO: REDWOOD LANDFILL  
COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
10/17/90	11810	73269				4.000 Hrs	63.0000	252.00-
10/17/90	11810-B ADL CHG				BRIDGE TOLL			8.25-
10/17/90	14109	73317		73264		8.000 Hrs	63.0000	504.00-
10/17/90	14109-B ADL CHG				BRIDGE TOLL			13.00-
10/17/90	15078	73319		73265		8.250 Hrs	63.0000	519.75-
10/17/90	15078-B ADL CHG				BRIDGE TOLL			6.50-
11/14/90	13689	77098		77060		7.000 Hrs	63.0000	441.00-
11/14/90	13689-B ADL CHG				BRIDGE TOLL			16.50-
11/14/90	14133	77096		77061		7.500 Hrs	63.0000	472.50-
11/14/90	14555	77099		77069		7.000 Hrs	63.0000	441.00-
11/14/90	14555-B ADL CHG				BRIDGE TOLL			16.50-
	SUBTOTL	TRANSPORT				41.750 Hrs		2,630.25
	SUBTOTL					11.000 Lds		2,691.00

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	Z1
Approved: <i>[Signature]</i>			12/3/90
K. A. Christie			

PLEASE PAY THIS AMOUNT 2,691.00

2112

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 01

BYRON

CA 94514

DATE: 10/17/90

007 0 1000

INVOICE NO: 00276

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

ACCOUNT NO: 00001

JOB#: 0001/12 STATION #2112  
FROM: ARCO/ALAMEDA \*2112  
TO: GSX/BUTTONWILLOW  
COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
09/24/90	10946	DESC: NON HAZARDOUS 2849 184897				23.590 Tns	40.0000	943.60
09/24/90	12120	DESC: NON HAZARDOUS 2851 184902				24.190 Tns	40.0000	967.60
09/24/90	12335	DESC: NON HAZARDOUS 2845 184860				23.960 Tns	40.0000	958.40
09/24/90	STANDBY	184860				0.500 Hrs	50.0000	25.00
09/24/90	12367	DESC: NON HAZARDOUS 2848 184890				24.910 Tns	40.0000	996.40
09/24/90	14400	DESC: NON HAZARDOUS 2843 184859				23.130 Tns	40.0000	925.20
09/24/90	STANDBY	184859				1.500 Hrs	50.0000	75.00
09/24/90	14478	DESC: NON HAZARDOUS 2846 184861				23.930 Tns	40.0000	957.20
09/24/90	15111	DESC: NON HAZARDOUS 2842 184858				25.340 Tns	40.0000	1,013.60
09/24/90	STANDBY	184858				0.500 Hrs	50.0000	25.00
09/24/90	15352	DESC: NON HAZARDOUS 2847 184895				21.750 Tns	40.0000	870.00
09/24/90	15490	DESC: NON HAZARDOUS 2844 184862				24.310 Tns	40.0000	972.40
09/24/90	3985	DESC: NON HAZARDOUS 2850 184896				23.630 Tns	40.0000	945.20
SUBTOTL TRANSPORT						238.740 Tns		9,549.60
SUBTOTL						10.000 Lds	125	9,674.60

ACCT COST CENTER FAC.# TYPE  
 CAPITALIZE \$8,106.60 TO DRILLING & SOIL  
 SAMPLING DURING TAKE ALL AT #2112  
 PAY \$1,568.00 TO 8491/5232/2112-21  
 Approved: *[Signature]* 11/17/90  
 R. W. Carlson

KAC-90-230

PLEASE PAY THIS AMOUNT 9,674.60

SS# 2112

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 01

RECEIVED

BYRON

CA 94514

OCT 19 1990

DATE: 10/17/90

INVOICE NO: 00275

ACCOUNT NO: 00001

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

JOB#: 0001/17  
FROM: ARCO/ALAMEDA  
TO: REDWOOD LANDFILL  
COMDTY: 8S-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
					DESC: LOAD REFUSED AT SITE			
09/13/90	12332					4.000 Hrs	63.0000	252.00 ✓
09/13/90	12332-A	ADL CHG			BRIDGE TOLL			8.25 ✓
					DESC: LOAD REFUSED AT SITE			
09/13/90	15486					4.250 Hrs	63.0000	267.75 ✓
	SUBTOTL	TRANSPORT				8.250 Hrs		519.75
	SUBTOTL					2.000 Lds		528.00

ACCT	COST CENTER	INVOICE #	TYPE
8491	J232	2112	Z1
Approved: <i>K. A. Christie</i>		10/17/90	
K. A. Christie			

PLEASE PAY THIS AMOUNT 528.00

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 01

2112

BYRON

CA 94514

DATE: 10/17/90

INVOICE NO: 00277

0011717

ACCOUNT NO: 00001

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

JOB#: 0001/17 STATION 2112  
FROM: ARCO/ALAMEDA  
TO: REDWOOD LANDFILL  
COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
09/27/90	12654	70723		70760		7.250 Hrs	63.0000	456.75 -
09/27/90	12654-A	ADL CHG			BRIDGE TOLL			16.50 -
09/27/90	14547	70745		70698		6.100 Hrs	63.0000	384.30 -
09/27/90	14547-A	ADL CHG			BRIDGE TOLL			16.50 -
09/27/90	15114	70742		70684		6.250 Hrs	63.0000	393.75 -
09/27/90	15114-A	ADL CHG			BRIDGE TOLL			16.50 -
09/27/90	15163	70748		70717		7.000 Hrs	63.0000	441.00 -
09/27/90	15163-A	ADL CHG			BRIDGE TOLL			16.50 -
09/27/90	15179	70757		70715		7.000 Hrs	63.0000	441.00 -
09/27/90	15179-A	ADL CHG			BRIDGE TOLL			16.50 -
09/27/90	15377	70763		70725		7.250 Hrs	63.0000	456.75 -
10/05/90	14252	71807		71762		8.500 Hrs	63.0000	535.50 -
10/05/90	14252-A	ADL CHG			BRIDGE TOLL			13.00 -
10/05/90	15045	71808		71763		8.250 Hrs	63.0000	519.75 -
10/05/90	15045-A	ADL CHG			BRIDGE TOLL			13.00 -
10/05/90	15353	71770		71800		7.750 Hrs	63.0000	488.25 -
SUBTOTL TRANSPORT						65.350 Hrs		4,117.05 - <sup>06</sup>
SUBTOTL						18.000 Lds		4,225.55

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>K. A. Christie</i>			11/17/90
K. A. Christie			

PLEASE PAY THIS AMOUNT 4,225.55

DILLARD TRUCKING, INC.  
 ROUTE 1 BOX 73

PAGE: 01

BYRON

CA 94514

DATE: 08/31/90

INVOICE NO: 00187

ACCOUNT NO: 00001

ARCO PRODUCTS  
 P.O. BOX 5811  
 SAN MATEO

CA 94402

JOB#: 0001/08 ARCO STATION #2112  
 FROM: ARCO/ALAMEDA  
 TO: REDWOOD SANITARY LAN  
 COUNTY: 85-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
08/08/90	10841	DESC: ARCO STATION #2112 64403	21	64352		7.000 Hrs	59.5500	416.85
08/08/90	12191	DESC: ARCO STATION #2112 64406		64373		6.750 Hrs	59.5500	401.96
08/08/90	12191A	ADL CHG			BRIDGE TOLL - 2 @ \$8.25			16.50
08/08/90	12505	DESC: ARCO STATION #2112 64404		64351		7.000 Hrs	59.5500	416.85
08/08/90	12505A	ADL CHG			BRIDGE TOLL - 2 @ \$6.50			13.00
08/08/90	12627	DESC: ARCO STATION #2112 64394		64361		8.000 Hrs	59.5500	476.40
08/08/90	14177	DESC: ARCO STATION #2112 64387		64337		6.500 Hrs	59.5500	387.08
08/08/90	14177A	ADL CHG			BRIDGE TOLL-2 @ \$8.25			16.50
08/08/90	14367	DESC: ARCO STATION #2112 64338		64386		6.750 Hrs	59.5500	401.96
08/08/90	14455	DESC: ARCO STATION #2112 64382				5.750 Hrs	59.5500	342.41
08/08/90	14527	DESC: ARCO STATION #2112 64407		64366		6.500 Hrs	59.5500	387.08
08/08/90	14751	DESC: ARCO STATION #2112 64379				6.500 Hrs	59.5500	387.08
08/08/90	9174	DESC: ARCO STATION #2112 64392		64353		8.000 Hrs	59.5500	476.40
08/08/90	9174A	ADL CHG			BRIDGE TOLL - 2 @ \$8.25			16.50
08/08/90	9189	DESC: ARCO STATION #2112 63493		64354		8.000 Hrs	59.5500	476.40
08/08/90	9189A	ADL CHG			BRIDGE TOLL - 2 @ \$8.25			16.50
08/09/90	12382	DESC: ARCO STATION #2112 64527				4.000 Hrs	59.5500	238.20

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 02

BYRON

CA 94514

DATE: 08/31/90

INVOICE NO: 00187

ACCOUNT NO: 00001

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

JOB#: 0001/08 ARCO STATION #2112  
FROM: ARCO/ALAMEDA  
TO: REDWOOD SANITARY LAN  
COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
08/09/90	12628	64529				4.250 Hrs	59.5500	253.09 -
		DESC: ARCO STATION #2112						
08/09/90	14176	94543		64492		7.500 Hrs	59.5500	446.63 -
08/09/90	14176A	ADL CHG			BRIDGE TOLL - 2 @ \$8.25 -			16.50 -
		DESC: ARCO STATION #2112						
08/09/90	14221	64501		64555		7.000 Hrs	59.5500	416.85 -
08/09/90	14221A	ADL CHG			BRIDGE TOLL - 2 @ \$6.50 -			13.00
		DESC: ARCO STATION #2112						
08/09/90	14368	64544		64498		8.000 Hrs	59.5500	476.40 -
		DESC: ARCO STATION #2112						
0 / '90	14528	64516				4.250 Hrs	59.5500	253.09 -
		DESC: ARCO STATION #2112						
08/09/90	14535	64506				4.000 Hrs	59.5500	238.20 -
		DESC: ARCO STATION #2112						
08/09/90	14918	64554		64500		8.000 Hrs	59.5500	476.40 -
08/09/90	14918A	ADL CHG			BRIDGE TOLL - 2 @ \$6.50 -			13.00
		DESC: ARCO STATION #2112						
08/09/90	9190	64519				4.000 Hrs	59.5500	238.20 -
08/09/90	9190A	ADL CHG			BRIDGE TOLL - 1 @ \$8.25 -			8.25
		DESC: ARCO STATION #2112						
08/09/90	9866	64520				5.250 Hrs	59.5500	312.64 -
08/09/90	9866A	ADL CHG			BRIDGE TOLL - 1 @ \$6.50 -			6.50
JOBTOTL	FRT: 7,920.17	MTL: 0.00	STBY: 0.00	ADC: 0.00	136.25	SC: 0.00	TAX: 0.00	TOTAL: 8,056.42

JOB#:	0001/11	DESC:	FROM: ARCO/ALAMEDA	TO: GSX/BUTTONWILLOW	COMDTY: BS-BULK SOIL	
		DESC: MANIFEST 90015115				
08/15/90	10193	183192		24.480 Tns	40.0000	979.20 -
08/15/90	STANDBY	183192		0.750 Hrs	50.0000	37.50 -
		DESC: MANIFEST 90015112				
08/15/90	11337	183208		23.990 Tns	40.0000	959.60 -

DILLARD TRUCKING, INC.  
ROUTE 1 BOX 73

PAGE: 03

BYRON

CA 94514

DATE: 08/31/90

INVOICE NO: 00187

ACCOUNT NO: 00001

ARCO PRODUCTS  
P.O. BOX 5811  
SAN MATEO

CA 94402

JOB#: 0001/08 ARCO STATION #2112  
FROM: ARCO/ALAMEDA  
TO: REDWOOD SANITARY LAN  
CONDY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF LAD	DESCRIPTION	UNITS	RATE	AMOUNT
08/15/90	STANDBY	183208				1.500 Hrs	50.0000	75.00 ✓
		DESC: MANIFEST 90015111						
08/15/90	12316	183207				23.750 Tns	40.0000	950.00 -
08/15/90	STANDBY	183207				1.000 Hrs	50.0000	50.00 -
		DESC: MANIFEST 90015109						
08/15/90	12631	183186				24.610 Tns	40.0000	984.40 -
		DESC: MANIFEST 90015116						
08/15/90	14371	183202				22.020 Tns	40.0000	880.80 -
08/15/90	STANDBY	183202				0.750 Hrs	50.0000	37.50 -
		DESC: MANIFEST 90015113						
08/15/90	14838	183212				22.330 Tns	40.0000	893.20 -
		DESC: MANIFEST 90015110						
08/15/90	15155	183182				25.150 Tns	40.0000	1,006.00 -
08/15/90	STANDBY	183182				2.250 Hrs	50.0000	112.50 -
		DESC: MANIFEST 90015114						
08/15/90	3903	183194				21.310 Tns	40.0000	852.40 -
08/15/90	STANDBY	183194				1.500 Hrs	50.0000	75.00 -
JOBTOTL	FRT: 7,505.60	MTL: 0.00	STBY: 387.50	ADC: 0.00	SC: 0.00	TAX: 0.00	TOTAL: 7,893.10	

SUBTOTL FREIGHT  
SUBTOTL FREIGHT  
SUBTOTL

133.000 Hrs 7,920.17  
187.640 Tns 7,505.60  
42.000 Lds 15,949.52

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>K. A. Christie</i>		9-17-90	
K. A. Christie			

PLEASE PAY THIS AMOUNT 15,949.52



LOKERN  
 LAIDLAW ENV. SVCS (LOKERN), INC.  
 5500 MING AVE, SUITE 130  
 BAKERSFIELD, CA 93309  
 Telephone: 805-835-5800

01/17/91 1810117016

DATE INVOICE NO.

RECEIVED

JAN 26 1991

K.A. CHRISTIE

Page 001

FEDERAL ID NUMBER: 57-0891472

880120

34

ATTN: ACCOUNTS PAYABLE ARCO PRODUCTS COMP P.O.BOX 5811  SAN MATEO, CA 94402	ARCO SS#2112  ALAMEDA, CA SALES: JOHN BEALE
---	--

TRANSPORTED BY	TERMS	DATE SHIPPED	P.O. NUMBER
L&L DAUGHTER	Net 10 Days	01/17/91	

WORK ORDER NO.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	AMOUNT
<u>DISPOSAL</u>				
188681	23.420	DISPOSAL SOLIDS MANIFEST # 3604	60.0000	1405.20
		WASTE CODE: G1216		
		DISPOSAL GROUP SUBTOTAL		\$ 1405.20
		SUBTOTAL FOR INVOICE		\$ 1405.20
		County Tax		\$ 0.00

Non-Hazardous Solid: 46840.00 LBS 23.42 TON

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>K.A. Christie</i>			2/4/91
K. A. Christie			

\* NOTE: SERVICES RENDERED 1/15/91

Please Remit To: LAIDLAW ENV. SVCS (LOKERN), INC  
 LOKERN  
 P.O. BOX 100026  
 PASADENA, CA 91189-0026

TOTAL DUE \$ 1405.20



Laidlaw Environmental Services  
 5500 Ming Avenue  
 Suite 130  
 Bakersfield, CA 93309  
 (805) 835-5801

LOKERN  
 AIDLAW ENV. SVCS (LOKERN), INC.  
 500 MING AVE, SUITE 130  
 BAKERSFIELD, CA 93309  
 Telephone: 805-835-5800

12/21/90

1801221004

DATE

INVOICE NO.

FEDERAL ID NUMBER: 57-0891472

Page 001

880120

34

ATTN: ACCOUNTS PAYABLE  
 ARCO PRODUCTS COMP  
 P.O. BOX 5811

ARCO SS#2112

SAN MATEO, CA 94402

ALAMEDA, CA  
 SALES: JOHN BEALE

TRANSPORTED BY	TERMS	DATE SHIPPED	P.O. NUMBER
VARIOUS	Net 10 Days	12/21/90	

WORK ORDER NO.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	AMOUNT
<u>DISPOSAL</u>				
187776	23.370	DISPOSAL SOLIDS MANIFEST # 3207	60.0000 WASTE CODE: G1216	1402.20
187774	23.970	DISPOSAL SOLIDS MANIFEST # 3208	60.0000 WASTE CODE: G1216	1438.20
187777	24.900	DISPOSAL SOLIDS MANIFEST # 3209	60.0000 WASTE CODE: G1216	1494.00
187773	23.840	DISPOSAL SOLIDS MANIFEST # 3210	60.0000 WASTE CODE: G1216	1430.40
187781	23.550	DISPOSAL SOLIDS MANIFEST # 3211	60.0000 WASTE CODE: G1216	1413.00
187784	24.920	DISPOSAL SOLIDS MANIFEST # 3212	60.0000 WASTE CODE: G1216	1495.20
187786	24.750	DISPOSAL SOLIDS MANIFEST # 3213	60.0000 WASTE CODE: G1216	1485.00
187771	22.630	DISPOSAL SOLIDS MANIFEST # 3214	60.0000 WASTE CODE: G1216	1357.80
187775	23.920	DISPOSAL SOLIDS MANIFEST # 3215	60.0000 WASTE CODE: G1216	1435.20
187787	24.830	DISPOSAL SOLIDS MANIFEST # 3216	60.0000 WASTE CODE: G1216	1489.80
187782	24.930	DISPOSAL SOLIDS MANIFEST # 3217	60.0000 WASTE CODE: G1216	1495.80
187779	24.610	DISPOSAL SOLIDS MANIFEST # 3218	60.0000 WASTE CODE: G1216	1476.60
187783	24.720	DISPOSAL SOLIDS MANIFEST # 3219	60.0000 WASTE CODE: G1216	1483.20
187785	24.720	DISPOSAL SOLIDS MANIFEST # 3220	60.0000 WASTE CODE: G1216	1483.20
DISPOSAL GROUP SUBTOTAL				\$ 20379.60

Please Remit To: LAIDLAW ENV. SVCS (LOKERN), INC  
 LOKERN  
 P.O. BOX 100026  
 BAKERSFIELD, CA 93309-0026

\*\* CONTINUED ON \*\*  
 \*\* PAGE: 002 \*\*

Suite 130  
Bakersfield, CA 93309  
(805) 835-5801

KERSFIELD, CA 93309  
Telephone: 805-835-5800

FEDERAL ID NUMBER: 57-0891472

Page 002

880120

34

ATTN: ACCOUNTS PAYABLE ARCO PRODUCTS COMP P.O. BOX 5811  SAN MATEO, CA 94402	ARCO SS#2112  ALAMEDA, CA SALES: JOHN BEALE
--	--

TRANSPORTED BY	TERMS	DATE SHIPPED	P.O. NUMBER
VARIOUS	Net 10 Days	12/21/90	

WORK ORDER NO.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	AMOUNT
----------------	------------------	-------------	------------	--------

SUBTOTAL FOR INVOICE	\$	20379.60
County Tax	\$	0.00

Non-Hazardous Solid: 679320.00 LBS 339.66 TON

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>K. A. Christie</i>		8/28/90	
		K. A. Christie	

NOTE: SERVICES RENDERED 12/18/90

Please Remit To: LAIDLAW ENV. SVCS (LOKERN), INC  
LOKERN  
P.O. BOX 100026  
PASADENA, CA 91189-0026

TOTAL DUE \$ 20379.60

LOKERN  
 LAIDLAW ENV. SVCS (LOKERN), INC.  
 5500 MING AVE, SUITE 130  
 BAKERSFIELD, CA 93309  
 Telephone: 805-835-5800

12/21/90

1801221017

LAIDLAW Environmental  
 5500 Ming Avenue  
 Suite 130  
 Bakersfield, CA 93309  
 (805) 835-5801

DATE

INVOICE NO.

RECEIVED

DEC 31 1990

Page 001

K.A. CHRISTIE

FEDERAL ID NUMBER: 57-0891472

880120

34

ATTN: ACCOUNTS PAYABLE  
 ARCO PRODUCTS COMP  
 P.O. BOX 5811

ARCO SS#2112

SAN MATEO, CA 94402

ALAMEDA, CA  
 SALES: JOHN BEALE

TRANSPORTED BY	TERMS	DATE SHIPPED	P.O. NUMBER
VARIOUS	Net 10 Days	12/21/90	

WORK ORDER NO.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	AMOUNT
<u>DISPOSAL</u>				
187819	23.600	DISPOSAL SOLIDS MANIFEST # 3222	60.0000	1416.00
187820	22.910	DISPOSAL SOLIDS MANIFEST # 3223	60.0000	1374.60
DISPOSAL GROUP SUBTOTAL				\$ 2790.60
SUBTOTAL FOR INVOICE				\$ 2790.60
County Tax				\$ 0.00

Non-Hazardous Solid: 93020.00 LBS 46.51 TON

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>[Signature]</i>			2/15/91
K. A. Christie			

No memo to management, work  
 AUTHORIZED IN '90.

NOTE: SERVICES RENDERED 12/19/90

Please Remit To: LAIDLAW ENV. SVCS (LOKERN), INC  
 LOKERN  
 P.O. BOX 100026  
 PASADENA, CA 91189-0026

TOTAL DUE \$ 2790.60



PWI  
 GSX SERVICES (PW) INC.  
 5500 MING AVE. SUITE 130  
 BAKERSFIELD, CA 93309  
 Telephone: 805/835-5801

/27/90

1800927027

DATE

INVOICE NO.

RECEIVED

OCT 02 1990

K.A. CHRISTIE

Page 001

FEDERAL ID NUMBER: 57-0891472

880120

34

ATTN: ACCOUNTS PAYABLE  
 ARCO PRODUCTS COMP  
 P.O. BOX 5811

ARCO

SAN MATEO, CA 94402

ALAMEDA, CA  
 SALES: JOHN BEALE

TRANSPORTED BY	TERMS	DATE SHIPPED	P.O. NUMBER
DILLARD	Net 10 Days	09/27/90	N/A KAC-90-232

WORK ORDER NO.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	AMOUNT
<u>DISPOSAL</u>				
184858	25.340 ✓	DISPOSAL SOLIDS MANIFEST # 2842	60.0000	1520.40
184859	23.130 ✓	DISPOSAL SOLIDS MANIFEST # 2843	60.0000	1387.80
184862	24.310 ✓	DISPOSAL SOLIDS MANIFEST # 2844	60.0000	1458.60
184860	23.960 ✓	DISPOSAL SOLIDS MANIFEST # 2845	60.0000	1437.60
184861	23.930 ✓	DISPOSAL SOLIDS MANIFEST # 2846	60.0000	1435.80
184895	21.750 ✓	DISPOSAL SOLIDS MANIFEST # 2847	60.0000	1305.00
184890	24.910 ✓	DISPOSAL SOLIDS MANIFEST # 2848	60.0000	1494.60
184897	23.590 ✓	DISPOSAL SOLIDS MANIFEST # 2849	60.0000	1415.40
184896	23.630 ✓	DISPOSAL SOLIDS MANIFEST # 2850	60.0000	1417.80
184902	24.190 ✓	DISPOSAL SOLIDS MANIFEST # 2851	60.0000	1451.40

DISPOSAL GROUP SUBTOTAL

\$ 14324.40

238.74 TONS x 60<sup>00</sup> = 14,324.40

Please Remit To: PWI  
 GSX SERVICES (PW) INC.  
 P.O. BOX 100026  
 PASADENA, CA 91189-0026

\*\* CONTINUED ON \*\*  
 \*\* PAGE: 002 \*\*



PWI  
 GSX SERVICES (PW) INC.  
 5500 MING AVE. SUITE 130  
 BAKERSFIELD, CA 93309  
 Telephone: 805/835-5801

09/27/90

1800927027

DATE

INVOICE NO.

FEDERAL ID NUMBER: 57-0891472

Page 002

ATTN: ACCOUNTS PAYABLE ARCO PRODUCTS COMP P.O. BOX 5811  SAN MATEO, CA 94402	880120	ARCO	34
		ALAMEDA, CA SALES: JOHN BEALE	

TRANSPORTED BY	TERMS	DATE SHIPPED	P.O. NUMBER
DILLARD	Net 10 Days	09/27/90	N/A

WORK ORDER NO.	QUANTITY SHIPPED	DESCRIPTION	UNIT PRICE	AMOUNT
----------------	------------------	-------------	------------	--------

SUBTOTAL FOR INVOICE	=====	\$	14324.40	=====
County Tax		\$	0.00	

Non-Hazardous Solid: 477480.00 LBS 238.74 TON

ACCT	COST CENTER	FAC. #	TYPE
CAPITALIZE \$7,500 TO SOIL DISPOSAL DURING TANK PULL AT #2112			
CAPITALIZE \$6,824.40 TO DRIVING PRIOR TO TANK PULL AT '95 #2112			
Approved: <i>[Signature]</i>			10/8/90
K. A. Christie			

NOTE: SERVICES RENDERED 9/24/90

Please Remit To: PWI  
 GSX SERVICES (PW) INC.  
 P.O. BOX 100026  
 PASADENA, CA 91102

TOTAL DUE \$ 14324.40



**RECEIVED**

**AUG 10 1990**

**K.A. CHRISTIE**

RECEIVED  
OCT 11 1990  
SAN FRANCISCO REGION

220 CHINA BASIN, SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

DATE: AUGUST 7, 1990  
OUR INVOICE NO.: 0890-037  
JOB NO.: 5073  
CUSTOMER'S P.O. NO.: RM110439  
CUSTOMER'S JOB NO.: KAC-90-170

ARCO PRODUCTS COMPANY  
P.O. BOX 5811  
SAN MATEO, CALIFORNIA 94402

FURNISHED VACUUM TRUCK AND OPERATOR TO PUMP OUT OIL AND WATER, AND DISPOSE OF SAME.

WORK PERFORMED: 07/24/90, ARCO STATION #2112  
1260 PARK STREET  
ALAMEDA, CALIFORNIA

VAC. TRUCK & OPERATOR (4.5 HOURS @ 65.00)	\$ 292.50 ✓
DISPOSAL OF OIL AND WATER (560 GALS. @ .30)	168.00 ✓
DISPOSAL OF FUEL (240 GALS. @ 1.50)	360.00 ✓
SOLIDS SURCHARGE (8 GALS. @ 3.50)	28.00 ✓
LAB ANALYSIS	200.00
BRIDGE TOLLS	10.00

TOTAL INVOICE

\$ 1,058.50

*OK to Pay: RE Mail 10/8/90*

*Acc # 5014 extra?  
env.?*

1½% PER MONTH CARRYING  
CHARGE ON REMAINING  
BALANCE AFTER 30 DAYS  
ANNUAL PERCENTAGE RATE 18%.

ACCT	COST CENTER	FAC. #	TYPE
8491	J232	2112	21
Approved: <i>[Signature]</i> K. A. Christie			

PUMP OUT OF CONTAMINATED  
WATER DURING TANK PULL.



# BILLING ADJUSTMENT FORM

Pgm Affected Billing Acct. #	
<input type="checkbox"/> Generator . H _____	
<input type="checkbox"/> AB2185 . . . L _____	
<input checked="" type="checkbox"/> UGT . . . . . T <u>61043</u>	

Date: 8/7/91

HazMat StID\* : \_\_\_\_\_

Caller: \_\_\_\_\_ Phone: \_\_\_\_\_

Company Name : ARCO STATION # 02112

Site Address : 1260 Park St. Alameda 94501  
CITY ZIP

Requested Changes : Cancel Re-bill for state charges New Installed TANKS 1990. Also only have 4 UGT now.

Initials: \_\_\_\_\_

## Inspectors' Conclusion

- Rescind Bill for following reasons:
- No Hazardous Waste       Moved out of County
  - Qty's under 2185 Min.       Closed / Out of Business
  - UGTanks removed
  - Other \_\_\_\_\_

Continue Billing With Following Changes:

_____ Change number of EMPLOYEES	From: _____	To: _____
<input checked="" type="checkbox"/> Change number of TANKS	<u>5</u>	<u>4</u>
_____ AB2185: Changes attached		
_____ Reopen Site Address / New Owner		

Co. Name AM-PM ARCO STA. #02112

Owner \_\_\_\_\_ Phone \_\_\_\_\_

### New Address

Site Address \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

Mail Address \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

Inspector: Susan L. Hugo Date: 8/8/91

HM Chg: _____
<input type="checkbox"/> Sent to Billing
on ___/___/___
Rev 11/89 Mac-BillAdj

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 # \_\_\_\_\_ Site Name AM-PM ARCO Today's Date 8/1/91

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)

Site Address 1260 Park Ave.  
 City Alameda Zip 94501 Phone 865-7335

\_\_\_ 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.B ACUTELY HAZ. MAT'LS

- \_\_\_ 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) \_\_\_\_\_
- \_\_\_ 19. Trade Secret Requested? 25538

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

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 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/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 \_\_\_\_\_

- \_\_\_ 7. Precs Tank Test Date: \_\_\_\_\_ 2643
- \_\_\_ 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 Date: \_\_\_\_\_ 2711
  - \_\_\_ 14. As Built Date: \_\_\_\_\_ 2635

Rev 8/88

Comments:

Gasoline Service Station with Mini-Market  
4 underground tanks at the site  
1-10,000 gal Super unleaded (double walled)  
2-10,000 gal Unleaded (with Loran sensor)  
1-10,000 gal regular (X76S detector)  
Tanks were installed 1990  
Leak detector tested - 11-20-90 passed.  
Written monitoring plan on site  
Precision Test (only) 2 tanks (10/4/90)  
on site. Results of other 2 tanks not available. Permit application forms "A & B" for the 4 tanks not available.  
Needs:  
1) Keep all monitoring records for the underground tanks on site for three years (tank tests, leak detector tests.)  
2) Provide the Dept. with copies of Tank permit forms A & B.  
3) Hazardous Materials Management Plan which be updated.

Contact: ROD SHAN  
 Title: OWNER  
 Signature: [Signature]

Inspector: \_\_\_\_\_  
 Signature: [Signature]

II, III



ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION

80 SWAN WAY, ROOM 200  
OAKLAND, CA 94621  
#415/271-4320

NOT A GENERATOR

FACILITY QUESTIONNAIRE  
=====

GENERAL INFORMATION

1. Establishment Name: AM-PM ARCO
2. Site Address: 1260 PARK AVE.  
City ALAMEDA Zip 94501
3. Mailing Address (if different): \_\_\_\_\_  
City ALAMEDA Zip 94501
4. Contact Person: ROO SHAN Phone: 8657335
5. Owner Name: ROO SHAN Owner Phone: 5684448
6. Name of Previous Owner: \_\_\_\_\_
7. Date you assumed business: 1988 / JUNE
8. Std. Industrial Classification (SIC) 5514 9. Type of Business: CASSELLMAN
10. Number of Employees: 6 11. EPA ID #: \_\_\_\_\_

PERMITS Check if you have permits from any of the following:

Local Agencies

12.  Local Sewer District (industrial waste discharges)  
Name of District \_\_\_\_\_
13.  City or Local Fire Dept. (Underground tanks, storage)  
Name of City or Dept. Alameda  
Type of Permit \_\_\_\_\_
14.  Alameda County Dept. of Health (Underground tanks)
15.  S.F. Regional Water Quality Management District
16.  Bay Area Air Quality Management District

CALIFORNIA Department of Health Services:

17.  Treatment, Storage, Disposal Facility
18.  Hazardous Waste Hauler

County Use Only

# \_\_\_\_\_ Site ID  
[ ] 1 Entry [ ] 2

OTHER

Please check if the following applies at your facility:

- 19.  Acutely hazardous materials are handled (Attachment 1)
- 20.  More than 500 lbs, 55 gal. or 200 cu. ft. of hazardous materials are handled (per year?) (See attachment 2)
- 21.  Hazardous materials are contained in underground tanks or sumps.
- 22.  You have submitted a business plan to the Alameda County Division of Hazardous Materials under California Health & Safety Code, Chapter 6.95.

23. Which of the following categories of hazardous materials are handled at your facility:
- Toxic       Corrosive       Flammable       Reactive

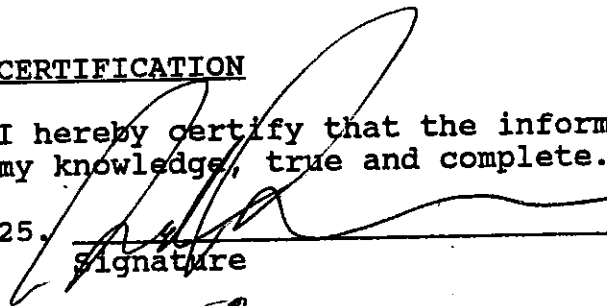
24. LIST OF CHEMICALS HANDLED

Please list the County Inventory Numbers (CIN) or Chemical Abstract Service (CAS) numbers of any of the hazardous chemicals that you handle. CIN numbers have been assigned to the more commonly used hazardous chemicals. If CAS numbers are used, please precede each number with an asterisk (\*).

<u>GASOLINE</u>	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

CERTIFICATION

I hereby certify that the information on this form is, to the best of my knowledge, true and complete.

25.  \_\_\_\_\_  
 Signature

ROOSHAN  
 Typed or Printed Name

26. OWNER  
 Title

8/1/91  
 Date

Please return completed form to: Department of Environmental Health  
 Hazardous Materials Division



August 3, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Ms. Elaine Lavine  
Arco Products Company  
Suite 218  
2000 Alameda de las Pulgas  
San Mateo, California 94403

RE: Underground Storage Tank Inspection at ARCO Facility # 2112  
1260 Park Street, Alameda, California 94501

Dear Ms. Lavine:

On August 1, 1991, the above referenced station was inspected by the Alameda County Department of Environmental Health, Hazardous Materials Division for compliance with Title 23 of the California Code of Regulations, and Chapter 6.7 of the California Health and Safety Code. The following list of violations were identified:

- \* As-built drawings of the facility indicating the actual location and orientation of the four underground storage tanks and appurtenant piping systems have not been submitted to this office since the installation of the tanks on August, 1990. Records in our file showed that a letter from this office dated April 23, 1990 which was sent to Mr. Kyle Christy stated that tank and piping as-builts must be submitted within 30 days upon completion of tank installation.
- \* Records of the initial precision test performed on the four underground tanks at the facility are incomplete. Only two precision test results were available on site.
- \* Underground storage tank permit applications submitted to this office were either incorrect or incomplete. As stated in the letter from this office dated April 23, 1990 which was addressed to Mr. Kyle Christy, the four blank application "Part B" forms must be completed for each underground tank and re-submitted to this department. Our office have not received these "Part B" forms.
- \* Records of leak detector repair showed that the alarm system experienced at least four times being in the alarm mode since the installation of the underground tanks on August, 1990. Mr. Rooshan explained that this situation is due to water run off which collects at the sump. This office is concerned that these false alarms are not actual unauthorized releases.

Ms. Elaine Lavine  
August 3, 1991  
Page 2 of 2

Please submit a **Plan of Correction** to this department within 15 days of the date of this letter or by **August 18, 1991** to resolve the violations noted above.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo  
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Mark Thompson, Alameda County District Attorney's Office  
Javad Rooshan, Dealer (1260 Park Street, Alameda, CA 94501)  
✓files

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 3, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Mr. Chuck Carmel  
Arco Products Company  
2000 Alameda de las Pulgas  
Suite 218  
San Mateo, California 94403

RE: Investigation of Subsurface and Groundwater Contamination  
at ARCO Facility # 2112 - 1260 Park St. Alameda, CA 94501

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the files concerning the soil and groundwater contamination from underground storage tanks at the referenced site. We are in receipt of the following reports:

Limited Environmental Site Assessment (February 20, 1990)  
prepared by Applied Geosystems  
Tank Replacement Observation Report (November 7, 1990)  
prepared by GeoStrategies, Inc.  
Workplan (January 2, 1991) prepared by GeoStrategies, Inc.  
Trench Excavation/Soil Aeration Report (May 3, 1991)  
prepared by GeoStrategies, Inc.

Through telephone conversation between Mr. Kyle Christy and a representative from this office on February 14, 1991, it was discussed that ARCO planned to remediate the remaining contaminated soil through in-situ soil vapor extraction rather than through soil excavation, treatment and disposal. Mr. Christy stated that the January 2, 1991 Workplan was a preliminary work plan and would be revised depending on the additional soil contamination data that would be obtained when the remaining piping from the former underground storage tanks was removed. We were advised by Mr. Christy that ARCO would contact this office concerning on whether or not there would be a revision in the January 2, 1991 Work Plan. It is still unclear at this time if all the pipings associated with the former underground storage tanks have been removed. This office was never informed subsequent to February 14, 1991 as to whether or not the workplan was to be revised.

The Alameda County District Attorney has informed this office, ARCO represents we have delayed responding to your January 2, 1991 proposal. Actually we have been waiting to hear from ARCO. Nevertheless, we have reviewed the proposal and note the following areas of concern to this department which must be addressed:

Mr. Chuck Carmel  
August 3, 1991  
Page 2 of 4

- \* A waste oil tank was removed on May, 1987. Initial soil samples revealed 430 ppm TPH diesel and 2,400 ppm motor oil. Following further excavation, soil contamination was reduced to <10 ppm motor oil. Manifest for the waste oil tank or bill of lading for any contaminated soil hauled off site have not been submitted to this office.
- \* Contamination of up to 21,000 ppm TPH gasoline was discovered during the limited environmental site assessment conducted by Applied GeoSystems on January 22 and 29, 1990 and described in their report of February 20, 1990. Upon the removal of the five underground storage tanks on July 26, 1990, contamination of up to 23,000 ppm TPH gasoline was discovered in the soil at a depth of 12 feet. Free product was observed on the water surface in the pit during the tank removal. On August, 1990 piping along the pump island was removed and soil samples collected showed contamination of up to 5,800 ppm TPH gasoline. Another piping was removed on October 25, 1990 and soils collected showed up to 15,000 ppm TPH gasoline contamination. On March 5, 1991, some more piping associated with the former underground storage tanks was removed and soil samples collected showed non detect for TPH gasoline, benzene, toluene, ethylbenzene and xylene. It is unclear if all the piping associated with the former five underground storage tanks have been removed at this time. Disposition of all the stockpiled soil generated at this site from the removal and installation of the underground storage tanks and pipings was not fully documented. Did any stockpiled soil go back into the ground?
- \* Manifest for the five underground storage tanks removed on 7/26/90 and contaminated soil hauled off site have not been submitted to this office.
- \* The workplan submitted to this agency on January 4, 1991 is not adequate to fully define the extent of soil and groundwater contamination:
  - Soil and groundwater contamination must be defined to "non-detect" levels.
  - Verified downgradient flow of groundwater must be established at the site.
  - Monitoring wells must be screened to intercept any free floating product. All monitoring wells must be sampled monthly for free product and analyzed for TPH gasoline, TPH diesel, BTXE, and oil and grease by a State certified laboratory for the first three months following well installation. After three months of consecutive sampling, sampling may be conducted as needed for remediation purposes but must occur at least quarterly. Before each

Mr. Chuck Carmel  
August 3, 1991  
Page 3 of 4

- sampling event is begun, free product thickness and water level must be determined.
- Water level contour maps, groundwater gradient determinations, and free and dissolved product definition maps must be routinely prepared and submitted with analytical data from each sampling event. Fluctuations in groundwater levels due to tidal action should also be documented. Geologic cross-sections, groundwater gradient (horizontal and vertical) and tidal effects must be interpreted to explain pollution migration pattern.
  - Potential short- and long-term impacts of the pollution plume on the beneficial uses of ground and surface water in the area must be determined. Beneficial uses include municipal water supply, groundwater recharge, fresh water habitat, wildlife habitat, contact and non-contact recreation, and fish migration.
  - The overall effectiveness of the proposed in-situ remediation using vapor extraction wells should be verified by an appropriate monitoring program. The remediation plan must include a time schedule for plan implementation and at a minimum address the following:
    - a) expedient removal of all free product at the site including monitoring and tabulating actual amount.
    - b) remediation of contaminated groundwater such that beneficial uses of the ground and surface water are restored and/or protected as required by RWQCB.
    - c) determination of aquifer characteristic and capture zone of the extraction system.
  - Permit requirements from other regulatory agencies which are applicable to the proposed remediation system must be followed.

\* Reports documenting implementation of the workplan must contain:

1. Actions that have occurred since the last report
2. Water level records
3. Clear records of field observations
4. Chain of custody forms
5. Laboratory-originated analytical results
6. Water level contour maps
7. Gradient determinations
8. Status of free product remediation
9. Status of soil remediation
10. Status of soil contamination definition
11. Status of dissolved constituents remediation
12. Status of dissolved constituents plume definition
13. Copies of TSDF to Generator manifests for any hazardous wastes hauled off site.

Mr. Chuck Carmel  
August 3, 1991  
Page 4 of 4

14. Soil boring/well logs of existing/ new wells/ borings signed by appropriate registered or certified professional

This department will oversee the assessment and remediation for this site. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. Please be advised that final concurrence by this office will depend on the extent to which the work done meets the requirements of this letter.

A report must be submitted within 30 days after completion of this investigation. Subsequent reports must be submitted **quarterly** until the site can be recommended for RWQCB's "**sign off**". All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer. Copies of reports and proposals must also be submitted to RWQCB (attention: Lester Feldman).

Please be aware that any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo  
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Lester Feldman, San Francisco Bay RWQCB  
Howard Hatayama, State Department of Health Services  
Keith Bullock, Gettler-Ryan Inc.  
Mark Thompson, Alameda County District Attorney's Office  
✓ Files



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 3, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Mr. Chuck Carmel  
Arco Products Company  
2000 Alameda de las Pulgas  
Suite 218  
San Mateo, California 94403

RE: Investigation of Subsurface and Groundwater Contamination  
at ARCO Facility # 2112 - 1260 Park St. Alameda, CA 94501

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the files concerning the soil and groundwater contamination from underground storage tanks at the referenced site. We are in receipt of the following reports:

Limited Environmental Site Assessment (February 20, 1990)  
prepared by Applied Geosystems  
Tank Replacement Observation Report (November 7, 1990)  
prepared by GeoStrategies, Inc.  
Workplan (January 2, 1991) prepared by GeoStrategies, Inc.  
Trench Excavation/Soil Aeration Report (May 3, 1991)  
prepared by GeoStrategies, Inc.

Through telephone conversation between Mr. Kyle Christy and a representative from this office on February 14, 1991, it was discussed that ARCO planned to remediate the remaining contaminated soil through in-situ soil vapor extraction rather than through soil excavation, treatment and disposal. Mr. Christy stated that the January 2, 1991 Workplan was a preliminary work plan and would be revised depending on the additional soil contamination data that would be obtained when the remaining piping from the former underground storage tanks was removed. We were advised by Mr. Christy that ARCO would contact this office concerning on whether or not there would be a revision in the January 2, 1991 Work Plan. It is still unclear at this time if all the pipings associated with the former underground storage tanks have been removed. This office was never informed subsequent to February 14, 1991 as to whether or not the workplan was to be revised.

The Alameda County District Attorney has informed this office (Hao) ARCO represents <sup>Hao</sup> we have delayed responding to your January 2, 1991 proposal. Actually we have been waiting to hear from ARCO. Nevertheless, we have reviewed the proposal and note the following areas of concern to this department which must be addressed:

- \* A waste oil tank was removed on May, 1987. Initial soil samples revealed 430 ppm TPH diesel and 2,400 ppm motor oil. Following further excavation, soil contamination was reduced to <10 ppm motor oil. Manifest for the waste oil tank or bill of lading for any contaminated soil hauled off site have not been submitted to this office.
- \* Contamination of up to 21,000 ppm TPH gasoline was discovered during the limited environmental site assessment conducted by Applied GeoSystems on January 22 and 29, 1990 and described in their report of February 20, 1990. Upon the removal of the five underground storage tanks on July 26, 1990, contamination of up to 23,000 ppm TPH gasoline was discovered in the soil at a depth of 12 feet. Free product was observed on the water surface in the pit during the tank removal. On August, 1990 piping along the pump island was removed and soil samples collected showed contamination of up to 5,800 ppm TPH gasoline. Another piping was removed on October 25, 1990 and soils collected showed up to 15,000 ppm TPH gasoline contamination. On March 5, 1991, some more piping associated with the former underground storage tanks was removed and soil samples collected showed non detect for TPH gasoline, benzene, toluene, ethylbenzene and xylene. It is unclear if all the piping associated with the former five underground storage tanks have been removed at this time. Disposition of all the stockpiled soil generated at this site from the removal and installation of the underground storage tanks and pipings was not fully documented. Did any stockpiled soil go back into the ground?
- \* Manifest for the five underground storage tanks removed on 7/26/90 and contaminated soil hauled off site have not been submitted to this office.
- \* The workplan submitted to this agency on January 4, 1991 is not adequate to fully define the extent of soil and groundwater contamination:
  - Soil and groundwater contamination must be defined to "non-detect" levels.
  - Verified downgradient flow of groundwater must be established at the site.
  - Monitoring wells must be screened to intercept any free floating product. All monitoring wells must be sampled monthly for free product and analyzed for TPH gasoline, TPH diesel, BTXE, and oil and grease by a State certified laboratory for the first three months following well installation. After three months of consecutive sampling, sampling may be conducted as needed for remediation purposes but must occur at least quarterly. Before each

Mr. Chuck Carmel  
August 3, 1991  
Page 3 of 4

sampling event is begun, free product thickness and water level must be determined.

- Water level contour maps, groundwater gradient determinations, and free and dissolved product definition maps must be routinely prepared and submitted with analytical data from each sampling event. Fluctuations in groundwater levels due to tidal action should also be documented. Geologic cross-sections, groundwater gradient (horizontal and vertical) and tidal effects must be interpreted to explain pollution migration pattern.
- Potential short- and long-term impacts of the pollution plume on the beneficial uses of ground and surface water in the area must be determined. Beneficial uses include municipal water supply, groundwater recharge, fresh water habitat, wildlife habitat, contact and non-contact recreation, and fish migration.
- The overall effectiveness of the proposed in-situ remediation using vapor extraction wells should be verified by an appropriate monitoring program. The remediation plan must include a time schedule for plan implementation and at a minimum address the following:
  - a) expedient removal of all free product at the site including monitoring and tabulating actual amount.
  - b) remediation of contaminated groundwater such that beneficial uses of the ground and surface water are restored and/or protected as required by RWQCB.
  - c) determination of aquifer characteristic and capture zone of the extraction system.
- Permit requirements from other regulatory agencies which are applicable to the proposed remediation system must be followed.

\* Reports documenting implementation of the workplan must contain:

1. Actions that have occurred since the last report
2. Water level records
3. Clear records of field observations
4. Chain of custody forms
5. Laboratory-originated analytical results
6. Water level contour maps
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Mr. Chuck Carmel  
August 3, 1991  
Page 4 of 4

14. Soil boring/well logs of existing/ new wells/ borings signed by appropriate registered or certified professional

This department will oversee the assessment and remediation for this site. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. Please be advised that final concurrence by this office will depend on the extent to which the work done meets the requirements of this letter.

A report must be submitted within 30 days after completion of this investigation. Subsequent reports must be submitted **quarterly** until the site can be recommended for RWQCB's "sign off". All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer. Copies of reports and proposals must also be submitted to RWQCB (attention: Lester Feldman).

Please be aware that any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo  
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Lester Feldman, San Francisco Bay RWQCB  
Howard Hatayama, State Department of Health Services  
Keith Bullock, Gettler-Ryan Inc.  
Mark Thompson, Alameda County District Attorney's Office  
Files

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 3, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Hazardous Materials Program  
80 Swan Way, Rm. 200  
Oakland, CA 94621  
(415)

Ms. Elaine Lavine  
Arco Products Company  
Suite 218  
2000 Alameda de las Pulgas  
San Mateo, California 94403

RE: Underground Storage Tank Inspection at ARCO Facility # 2112  
1260 Park Street, Alameda, California 94501

Dear Ms. Lavine:

On August 1, 1991, the above referenced station was inspected by the Alameda County Department of Environmental Health, Hazardous Materials Division for compliance with Title 23 of the California Code of Regulations, and Chapter 6.7 of the California Health and Safety Code. The following list of violations were identified:

- \* As-built drawings of the facility indicating the actual location and orientation of the four underground storage tanks and appurtenant piping systems have not been submitted to this office since the installation of the tanks on August, 1990. Records in our file showed that a letter from this office dated April 23, 1990 which was sent to Mr. Kyle Christy stated that tank and piping as-builts must be submitted within 30 days upon completion of tank installation.
- \* Records of the initial precision test performed on the four underground tanks at the facility are incomplete. Only two precision test results were available on site.
- \* Underground storage tank permit applications submitted to this office were either incorrect or incomplete. As stated in the letter from this office dated April 23, 1990 which was addressed to Mr. Kyle Christy, the four blank application "Part B" forms must be completed for each underground tank and re-submitted to this department. Our office have not received these "Part B" forms.
- \* Records of leak detector repair showed that the alarm system experienced at least four times being in the alarm mode since the installation of the underground tanks on August, 1990. Mr. Rooshan explained that this situation is due to water run off which collects at the sump. This office is concerned that these false alarms are not actual unauthorized releases.

Ms. Elaine Lavine  
August 3, 1991  
Page 2 of 2

Please submit a **Plan of Correction** to this department within 15 days of the date of this letter or by **August 18, 1991** to resolve the violations noted above.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo  
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Mark Thompson, Alameda County District Attorney's Office  
Javad Rooshan, Dealer (1260 Park Street, Alameda, CA 94501)  
files

July 15, 1991

Alameda County Department of Environmental Health  
80 Swan Way  
Oakland, California 94621

Attention: Mr. Rafat Shahid

**ARCO Products Company Facilities in Alameda County - RWQCB Fuel Leaks List**

Dear Mr. Shahid

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 second quarter of 1991; also included are projected site activities for the third quarter of 1991 and a bibliography of reports submitted for each location.

The QSRs are classified by address within the County. We are submitting this document and attached QSRs as agreed in our recent meeting with the RWQCB. Please note that we are forwarding copies of the QSRs to the RWQCB as well.

ARCO Products Company has reviewed the Regional Water Quality Control Board's (RWQCB) February 19, 1991 printout of ARCO fuel leak sites in the San Francisco Bay Area. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. It is ARCO's belief that several of the sites originally attributed to ARCO are actually the responsibility of other parties. We have therefore prepared QSRs and a brief discussion regarding those sites which we believe should either be removed from ARCO responsibility or be considered for closure.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on October 15, 1991. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely,



*for* Kyle A. Christie  
Environmental Engineer

Attachments:

Non-ARCO Facility/Site Closure Discussion and QSRs  
ARCO Facility QSRs

**NON-ARCO FACILITY/SITE CLOSURE DISCUSSION AND QSRS**

**Alameda County**



### Alameda County Sites

Two ARCO facilities including Station Numbers 4977 and 6002 (located at 2770 Castro Valley Road, Castro Valley and 6235 Seminary Avenue, Oakland) experienced vapor/vent line failure during UST system precision testing. In accordance with State Water Resources Control Board (SWRCB) letter LG-43, ARCO requests that these facilities be removed from the RWQCB fuel leaks list.

A small volume of hydrocarbons were released from ARCO Station Number 498 located at 286 South Livermore Avenue, Livermore. The product was released to an on-site secondary containment trench and was subsequently removed; no product was released to the soil or groundwater. Alameda County issued a letter to ARCO on May 24, 1991 stating that no further action is necessary at this site.

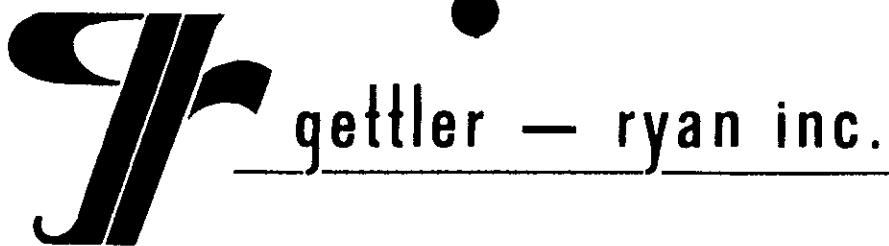
A total of seven Alameda County ARCO facilities listed by the RWQCB were not ARCO-owned at the time of the release discovery and/or report. These sites include Station Numbers 188, 329, and 623 (respectively located at 4191 First Street, Pleasanton, 2032 12th Street, Oakland, and 2110 Mountain, Oakland) and facilities located at 2951 High Street, 4401 Market Street, 2844 Mountain Boulevard, and 2740 98th Street, Oakland.

ARCO has prepared QSRs for each of these facilities; however, we request that the cases be omitted from the leaks list or be referred to the actual responsible party, as appropriate. The ownership information for the individual sites is included on the attached QSRs.

Finally, the RWQCB February 19, 1991 printout lists two sites which are actually the same. The facility listed as 71 MacArthur Boulevard is actually ARCO Service Station Number 4931 located at 731 West MacArthur Boulevard in Oakland.

Attachment:

Non-ARCO Facility QSRs



July 8, 1991

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

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California 94501

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 Previous Month's Activities:

\* May 3, 1991: GeoStrategies Inc. Trench Excavation/Soil Aeration Report was issued.

\* May 20, 1991: Keith Bullock (Gettler-Ryan Inc.) called Alameda County Health Agency to speak with Katherine Chesick at the Department of Environmental Health regarding the Work Plan issued on Jan. 2, 1991. At this time, the report had not been reviewed and due to personnel changes she was no longer in charge of this site and did not know who was overseeing it.

Anticipated Work to be Performed in the Next Month:

\* June 18, 1991: Keith Bullock (Gettler-Ryan Inc.) spoke with Mr. Lowell Miller to get the January 2, 1991 GSI Work Plan approved. He said he would find out who was overseeing the site and call Gettler-Ryan Inc. back.

\* Gettler-Ryan Inc. will start work upon approval of the Work Plan by the Alameda County Health Agency.

Please call if you have any questions concerning this letter.

Sincerely,

Keith Bullock

KB/elm

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

R044

Site ID # \_\_\_\_\_ Site Name AM-PM ARCO Today's Date 8/1/91

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)

Site Address 1260 Park Ave.  
 City Alameda Zip 94501 Phone 865-7335

\_\_\_ 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.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(f)
- \_\_\_ 18. Exemption Request? (Y/N) 25536(b)
- \_\_\_ 19. Trade Secret Requested? 25538

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

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 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 \_\_\_\_\_

- \_\_\_ 7. Precis 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 8/88

Comments:

Gasoline Service Station with Mini-Market

4 Underground tanks at the site

1-10,000 gal Super unleaded (double walled)  
2-10,000 gal Unleaded (with boron steel)  
1-10,000 gal regular X76S detector  
Tanks were installed 1990

Leak detector tested - 11/20/90 passed.

Written monitoring plan on site

Precision Test (only) 2 tanks (10/4/90)

on site. Receipt for sites 2 tanks not

available. Permit application forms

"A & B" for the 4 tanks not available.

Needs:

1) Keep all monitoring records for  
the 4 underground tanks on site for  
three years (tank tests, leak detector tests)

2) Provide the dept. with copies of  
Leak permit forms A & B.

3) Hazardous Materials Management Plan  
must be updated.

II, III

Contact: ROD SHAN

Title: OWNER

Signature: [Signature]

Inspector: \_\_\_\_\_

Signature: [Signature]



gettler — ryan inc.

---

July 8, 1991

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

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update  
ARCO Service Station 2112  
1260 Park Street  
Alameda, California 94501

Mr. Carmel:

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\* Gettler-Ryan Inc. will start work upon approval of the Work Plan by the Alameda County Health Agency.

Please call if you have any questions concerning this letter.

Sincerely,

Keith Bullock

KB/elm



REPORT

DATE

CONSULTANT

Limited Environmental Site Assessment ✓	February 20, 1990	Applied GeoSystems
Tank Replacement Report ✓	November 7, 1990	GeoStrategies Inc.
Work Plan ✓	January 2, 1991	GeoStrategies Inc.

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



April 19, 1991

Mr. Ed Howell  
Alameda County Public Health Service  
Hazardous Materials Section  
80 Swan Way, Suite 200  
Oakland, CA 94621

SUBJECT: ARCO Facility #2112  
1260 Park Street  
Alameda, CA 94501

Dear Mr. Howell:

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 attached instructions.

Should you have any questions or comments regarding this matter, please do not hesitate to call me at (415) 571-2482.

Sincerely,

Elaine J. Lavine  
Environmental Compliance Administrator

enc.

91 APR 22 AM 10:53

# 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 AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25107 OF THE HEALTH AND SAFETY CODE. SIGNED: <i>Katherine Pesick</i> DATE: <i>5/7/91</i>
REPORT DATE (MM-DD-YY) 04/19/91	CASE # 16425	

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Elaine Lavine	PHONE (415)-571-2482	SIGNATURE <i>Elaine J. Lavine</i>	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ARCO Products Company		
	ADDRESS    P.O. Box 5811    San Mateo    CA    94402 STREET    CITY    STATE    ZIP			

RESPONSIBLE PARTY	NAME ARCO Products Company <input type="checkbox"/> UNKNOWN	CONTACT PERSON Elaine J. Lavine	PHONE (415)-571-2482
	ADDRESS    PO BOX 5811 ATTN: Env.Compl.Dept.    San Mateo    CA    94402 STREET    CITY    STATE    ZIP		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO FACILITY    02112	OPERATOR JAVAD ROOSHAN	PHONE (415)-865-7335	
	ADDRESS    1260 PARK STREET    ALAMEDA    ALAMEDA    94501 STREET    CITY    COUNTY    ZIP			
	CROSS STREET ENCINAL/PARK ST			

IMPLEMENTING AGENCIES	LOCAL AGENCY    AGENCY NAME ALAMEDA COUNTY PUBLIC HEALTH	CONTACT PERSON ED HOWELL SENIOR SP	PHONE (415)-271-4320
	REGIONAL BOARD    SAN FRANCISCO BAY REGION    STEVE LUQUIRE    (415)-464-1255		

SUBSTANCES INVOLVED	(1)    NAME GASOLINE	QUANTITY LOST (GALLONS) 1/2 gal <input type="checkbox"/> UNKNOWN
	(2)	QUANTITY LOST (GALLONS) <input type="checkbox"/> UNKNOWN

DISCOVERY/TREATMENT	DATE DISCOVERED (MM-DD-YY) 04/11/1991	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 broken hose	
	DATE DISCHARGE BEGAN (MM-DD-YY) 04/11/1991 <input type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> OTHER broken hose	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO    IF YES, DATE 04/11/1991		

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

CASE TYPE	CHECK ONE ONLY <input checked="" 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) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EVACUATE AND TREAT (ET) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input checked="" type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SUPPLY (VS)
-----------------	--

**COMMENTS**  
 CALLED B/R MAINTENANCE TO MAKE REPAIRS. ALSO SHUT OFF SAFETY VALVE UNDER PUMP. HOSE REPAIRED. ALAMEDA COUNTY HEALTH DEPARTMENT AND OES HAVE BEEN NOTIFIED.





REPORT

DATE

CONSULTANT

Limited Environmental Site Assessment

February 20, 1990

Applied GeoSystems

Tank Replacement Report

November 7, 1990

GeoStrategies Inc.

Work Plan

January 2, 1991

GeoStrategies Inc.

2/21/91

# 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 type="checkbox"/> YES <input checked="" 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 02/06/91	CASE #	SIGNED <i>Katherine Chesick</i>	DATE 2/6/91
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REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <i>Katherine Chesick</i>	PHONE <i>(415) 271-4320</i>	SIGNATURE <i>Katherine Chesick</i>
	REPRESENTING <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME <i>Alameda County Haz. Mat. Division</i>	
	ADDRESS <i>80 Swan Way Rm 200</i>		

RESPONSIBLE PARTY	NAME <i>ARCO Products Co.</i>	<input type="checkbox"/> UNKNOWN	CONTACT PERSON <i>Kyle Christie</i>	PHONE <i>( )</i>
	ADDRESS <i>P.O. Box 5811</i>			<i>San Mateo CA 94402</i>

SITE LOCATION	FACILITY NAME (IF APPLICABLE) <i>ARCO Station # 2112</i>	OPERATOR	PHONE <i>( )</i>
	ADDRESS <i>1260 Park St</i>		
	<i>Encinal Avenue</i>	<i>Alameda</i>	<i>Alameda 94501</i>

IMPLEMENTING AGENCIES	LOCAL AGENCY <i>Alameda County Haz. Mat. Div.</i>	AGENCY NAME	CONTACT PERSON <i>Katherine Chesick</i>	PHONE <i>(415) 271-4320</i>
	REGIONAL BOARD <i>San Francisco Bay RWQCB</i>		<i>Lester Feldman</i>	PHONE <i>(415) 464-1255</i>

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

DISCOVERY/ABATEMENT	DATE DISCOVERED 02/22/90	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER <i>Borehole</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)	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 01/26/90	<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

SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <i>feather</i> <input 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 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 checked="" 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  
*Gasoline contamination of up to 23,000 ppm found in the soil following tank removal.*  
*\*\* This may duplicate already submitted information \*\**

## 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.

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

01

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" 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 01/21/06 9:11		CASE #		SIGNED: Katherine Chesick DATE: 2/6/91		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Katherine Chesick		PHONE (415) 271-4320		SIGNATURE Katherine Chesick	
	REPRESENTING <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME Alameda County Reg. Mat. Division			
	ADDRESS 80 Swan Way, Apt 200 STREET CITY STATE ZIP Oakland CA 94621					
RESPONSIBLE PARTY	NAME ARCO Products Co.		CONTACT PERSON Kyle Christie		PHONE ( )	
	ADDRESS P.O. Box 5811 STREET CITY STATE ZIP San Mateo CA 94402					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Station # 2112		OPERATOR		PHONE ( )	
	ADDRESS 1260 Park St STREET CITY STATE ZIP Alameda Alameda 94501					
	CROSS STREET Encinal Avenue					
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Reg. Mat. Div.		CONTACT PERSON Katherine Chesick		PHONE (415) 271-4320	
	REGIONAL BOARD San Francisco Bay RWQCB		CONTACT PERSON Lester Feldman		PHONE (415) 464-1255	
SUBSTANCES INVOLVED	(1) Gasoline		NAME		QUANTITY LOST (GALLONS) UNKNOWN	
	(2) UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 01/21/06 9:11		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 Borehole			
	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			
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SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" 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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COMMENTS	Gasoline contamination of up to 23,000 ppm found in the soil following tank removal.					
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4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
5. Owner/responsible party.

UST LEAK SITE UPDATE	Date of Last Review / Update _____	Current Date <u>1/3/91</u>
-------------------------	---------------------------------------	-------------------------------

**SITE IDENTIFICATION**

Name Arco Product Company #2112 Case No. \_\_\_\_\_

Address 1260 Park Street  
Street Number Street

Alameda 94501  
City ZIP Code

County Alameda County Substance gasoline

Local Agency Department of Environmental Health

Regional Board North Coast

**LEAD STAFF PERSON** KC

**CASE TYPE**

Undetermined  Soil Only  Groundwater  Drinking Water

**STATUS (Date indicates when case moved into status)**

<input type="checkbox"/> No Action Taken	Date _____
<input type="checkbox"/> Leak Being Confirmed	Date _____
<input type="checkbox"/> Prelim. Site Assessment Workplan Submitted	Date _____
<input type="checkbox"/> Preliminary Site Assessment Underway	Date _____
<input type="checkbox"/> Pollution Characterization	Date _____
<input type="checkbox"/> Remediation Plan	Date _____
<input type="checkbox"/> Remedial Action Underway	Date _____
<input type="checkbox"/> Post Remedial Action Monitoring	Date _____
<input type="checkbox"/> Case Referred to Regional Board	Date _____
<input type="checkbox"/> Case Referred to Dept. of Health Services	Date _____
<input type="checkbox"/> Case Closed	Date _____

**REMEDIAL ACTIONS** 3-vapor extraction wells and 1 groundwater recovery well as proposed.

**COMMENTS**

A tank replacement project was completed during the fourth quarter of 1990. Contaminated soil was aerated on site and/or shipped to the appropriate disposal site. Additional contaminated soil will be remediated in-situ.

A remedial plan has been proposed in a report that was submitted January 2, 1991.

Please refer to the attached page for a chronological listing of reports issued for this site.

**RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)**

Name \_\_\_\_\_

Contact \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_  
Street Number Street

\_\_\_\_\_  
City State ZIP Code

REPORT

DATE

CONSULTANT

Limited Environmental Site Assessment

February 20, 1990

Applied GeoSystems

Tank Replacement Report

November 7, 1990

GeoStrategies Inc.

Work Plan

January 2, 1991

GeoStrategies Inc.



01

UST LEAK SITE UPDATE	Date of Last Review / Update	Current Date 1/3/91
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**SITE IDENTIFICATION**

Name Arco Product Company #2112 Case No. \_\_\_\_\_

Address 1260 Park Street  
Street Number Street

Alameda 94501  
City ZIP Code

County Alameda County Substance gasoline

Local Agency Department of Environmental Health

Regional Board North Coast

**LEAD STAFF PERSON**

\_\_\_\_\_

**CASE TYPE**

\_\_\_\_\_ Undetermined \_\_\_\_\_ Soil Only \_\_\_\_\_ Groundwater \_\_\_\_\_ Drinking Water

**STATUS (Date indicates when case moved into status)**

_____ No Action Taken	Date _____
_____ Leak Being Confirmed	Date _____
_____ Prelim. Site Assessment Workplan Submitted	Date _____
_____ Preliminary Site Assessment Underway	Date _____
_____ Pollution Characterization	Date _____
_____ Remediation Plan	Date _____
_____ Remedial Action Underway	Date _____
_____ Post Remedial Action Monitoring	Date _____
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_____ Case Closed	Date _____

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**COMMENTS**

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**RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)**

Name \_\_\_\_\_

Contact \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_

Address \_\_\_\_\_  
Street Number Street

\_\_\_\_\_ City State ZIP Code

REPORT

DATE

CONSULTANT

Limited Environmental Site Assessment

February 20, 1990

Applied GeoSystems

Tank Replacement Report

November 7, 1990

GeoStrategies Inc.

Work Plan

January 2, 1991

GeoStrategies Inc.

## **SUMMARY REPORT**

Third Quarter 1990

**ARCO Service Station 2112  
1260 Park Street/Encinal Avenue  
Alameda, California  
Alameda County**

## **BACKGROUND**

For site history prior to 1990 refer to the October-December 1989 Quarterly Summary Report issued in January 1990.

- o January 22 and 29, 1990 - Applied GeoSystems performed a Limited Environmental Site Assessment, including drilling six soil borings to depths ranging from 11-1/2 to 13 feet, with the exception of B-1, which was drilled to 25 feet (Plate 1). Soil samples were collected from B-1 for soils engineering purposes. This assessment was performed prior to future tank replacement activities at the site. Ground water was encountered in the borings at the site at 12 feet. (Applied GeoSystems Report 69048-1, dated February 20, 1990). Report submitted to RWQCB and ACHA.
- o March 12, 1990 - Limited Environmental Site Assessment report submitted to RWQCB and ACHA.
- o August 1990 - Gettler-Ryan removed five underground gasoline-storage tanks from the site and excavated the majority of hydrocarbon-impacted soil near the pump island and beneath the former tanks. Stockpiled soil is presently being aerated onsite. Four 10,000-gallon tanks installed at site.

## **SOIL CONDITIONS**

No change from last quarter. See Applied GeoSystems Limited Environmental Site Assessment Report 69048-1, dated February 20, 1990, for laboratory results of soil samples collected at the site.

## QUARTERLY GROUND-WATER MONITORING

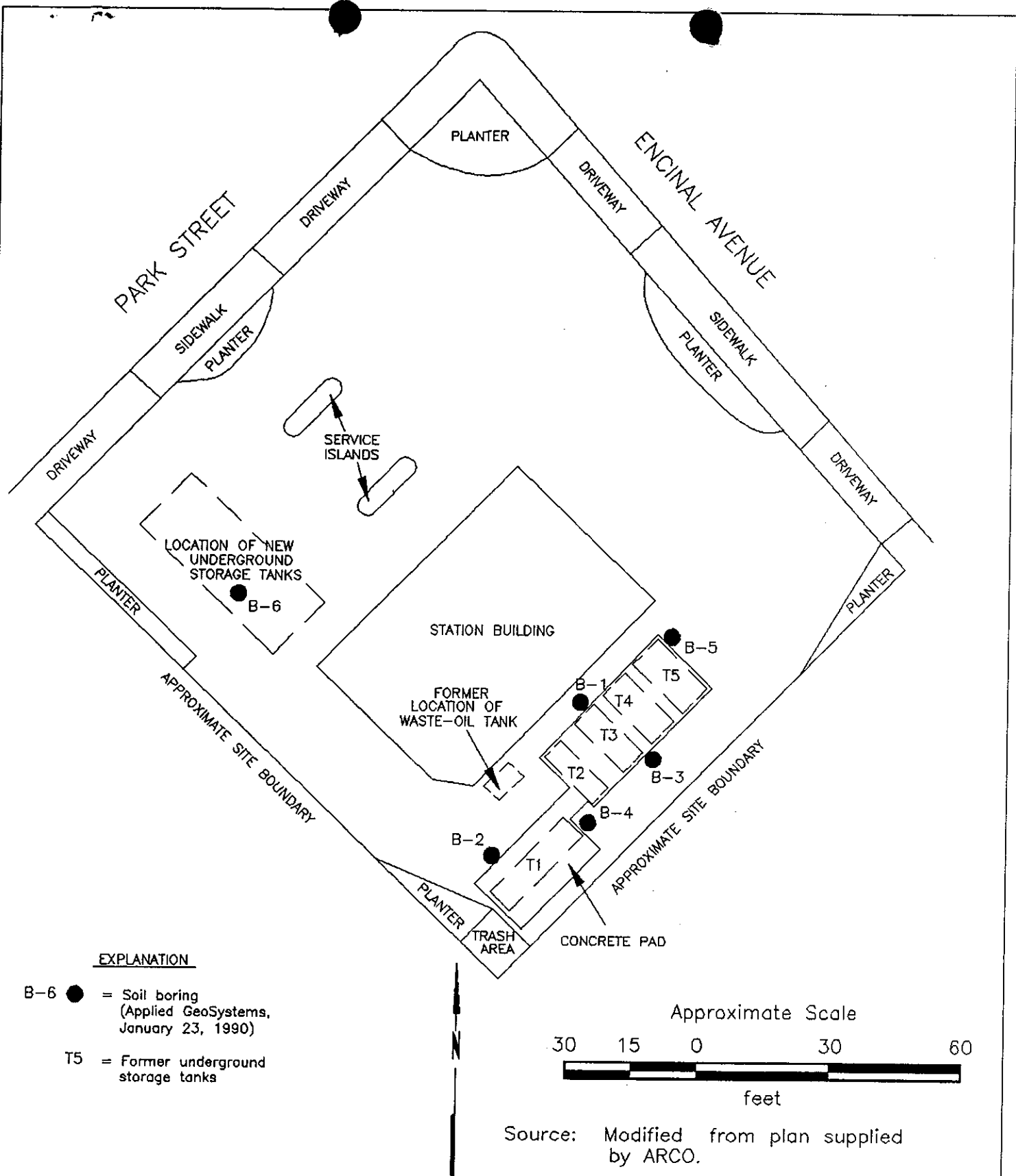
No monitoring wells onsite.

## STATUS SUMMARY: REMEDIATION

Hydrocarbon-impacted soil from the former underground storage tank pit was removed and is being aerated onsite. Options for further soil remediation will be considered in the future.

## ANTICIPATED WORK FOR NEXT QUARTER

- o Prepare report summarizing results of tank removal at the site.



**PROJECT 19011-1**

**GENERALIZED SITE PLAN  
ARCO Station 2112  
1260 Park Street  
Alameda, California**

**PLATE  
1**

90 OCT 15 PM 12: 19

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
<del>1704/LA1469</del>	<del>Tharce</del>	<del>2229 Grand Ave.</del>	<del>580 07/28/89 C</del>
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  
No 1167 MP.*

UTID/ Status Name of Site BillID	Site Address	#Tanks	PERMITS:
-0- C Arco Station #02112 T61043	1260 Park St. Alameda, CA 94501	5	I:09/06/88 F:-0-
784 C Arco Station #02035 T61043	1001 San Pablo Ave. Albany, CA 94706	4	I:09/06/88 F:-0-
658 C Arco Station #04977 AM/PM T61043	2770 Castro Valley Blvd. Castro Valley, CA 94546	3	I:09/06/88 F:07/05/88
-0- C Arco Station #02152 T61043	22141 Center St. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
*1053 C Arco Station #06041 T61043	7249 Village Pkwy. Dublin, CA 94568	4	I:09/06/88 F:-0-
*813 C Arco K&V Gas Foodmart T10115	6211 San Pablo Ave. Emeryville, CA 94608	3	I:-0- F:-0-
I * C Arco Station #05387 T61043	20200 Hesperian Blvd. Hayward, CA 94541	4	I:09/06/88 F:-0-
*-0- C Airport Arco T21120	20450 Hesperian Blvd. Hayward, CA 94541	3	I:02/03/89 F:-0-
*-112 C Springtown Arco T42311	909 Bluebell Dr. Livermore, CA 94550	3	I:-0- F:-0-
-0- C Arco Station #00771 T61043	899 Rincon Ave. Livermore, CA 94550	5	I:09/06/88 F:-0-
198 R Wong's Arco T61026	2032 E. - 12th St. Oakland, CA 94606	0	I:-0- F:-0-
*-0- C Arco Station #02185 T61043	9800 E. - 14th St. Oakland, CA 94603	4	I:09/06/88 F:-0-
1130 C Freeway Arco TA1036	2740 - 98th Ave. Oakland, CA 94605	4	I:10/13/87 F:-0-
-0- C Arco Station #02169 T61043	889 W. Grand Ave. Oakland, CA 94607	5	I:09/06/88 F:-0-
*-0- R Gin's Arco Service -0-	706 Harrison St. Oakland, CA 94612	0	I:-0- F:-0-
-0- C Arco Station #04494 T61043	566 Hegenberger Rd. Oakland, CA 94621	3	I:02/05/88 F:-0-
*1038 C High St. Arco T21043	2951 High St. Oakland, CA 94619	5	I:02/05/88 F:-0-
-0- C Arco Station #04931 T61043	731 W. MacArthur Blvd. Oakland, CA 94609	4	I:09/06/88 F:-0-
-0- C Arco Station #00276 T61043	10600 MacArthur Blvd. Oakland, CA 94605	3	I:09/06/88 F:-0-
851 C Mountain Blvd. Arco T41043	2844 Mountain Blvd. Oakland, CA 94602	4	I:04/14/88 F:-0-
-0- C Arco Station #02107 T61043	3310 Park Blvd. Oakland, CA 94610	3	I:09/06/88 F:-0-
-0- C Arco Station #06002 T61043	6235 Seminary Ave. Oakland, CA 94605	4	I:09/06/88 F:-0-
-0- C Arco Station #06148 T61043	5131 Shattuck Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
-0- C Arco Station #00374 T61043	6407 Telegraph Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
? -0- F Freedom Arco -0-	15101 Freedom Ave. San Leandro, CA 94578	3	I:-0- F:-0-
<del>1794 C Pharco T21053</del>	<del>2222 Grant Ave. San Lorenzo, CA 94580</del>	<del>1</del>	<del>I:08/16/88 F:-0-</del>
779 C Arco Station #00608 T61043	17601 Hesperian Blvd. San Lorenzo, CA 94580	4	I:09/06/88 F:-0-



**SUMMARY REPORT**  
First Quarter 1990

**ARCO Service Station No. 2112**  
**1260 Park Street/Encinal Avenue**  
**Alameda, California**  
**Alameda County**

**BACKGROUND**

For site history prior to 1990 refer to the October-December 1989 Quarterly Summary Report issued in January 1990.

- o January 22 and 29, 1990 - Applied GeoSystems performed a Limited Environmental Site Assessment, including drilling six soil borings to depths ranging from 11-1/2 to 13 feet, with the exception of B-1, which was drilled to 25 feet (Plate 1). Soil samples were collected from B-1 for soils engineering purposes. Soil samples were collected from the borings for laboratory analysis of hydrocarbons. This assessment was performed prior to future tank replacement activities at the site. Ground water was encountered in the borings at the site at 12 feet. (Applied GeoSystems Report 69048-1, dated February 20, 1990).

**SOIL CONDITIONS**

Analysis of soil samples collected from the soil borings on January 22 and 29, 1990, drilled in the area of the gasoline-storage tanks, indicated concentrations of total petroleum hydrocarbons as gasoline (TPHg) up to 21,000 parts per million (ppm) and concentrations of benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) up to 210, 1,100, 320, and 2,600 ppm, respectively (Table 1).

**QUARTERLY GROUND-WATER MONITORING**

No monitoring wells onsite.

**STATUS SUMMARY: REMEDIATION**

No remediation taking place at present time. Options for soil remediation will be considered in the future.

#### ANTICIPATED WORK FOR THE NEXT QUARTER

- o ARCO plans to replace the underground storage tanks during 1990.
- o An assessment to evaluate the extent hydrocarbons in soil adjacent to the tanks will be performed during tank replacement activities at the site.
- o Prepare a Work Plan to evaluate the extent of hydrocarbons in soil and potential hydrocarbons in first-encountered ground water beneath the site, and direction and magnitude of the ground-water gradient.

TABLE 1  
 RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES  
 ARCO Station 2112  
 1260 Park Street  
 Alameda, California

Sample Number	TPHg	B	T	E	X
S-6-B1	12	0.16	0.34	0.14	1.3
S-10-B1	1,700	15	72	22	180
S-6-B2	<2.0	<0.050	<0.050	<0.050	<0.050
S-11-B2	570	3.9	13	11	82
S-6-B3	<2.0	0.097	<0.050	<0.050	0.20
S-11-B3	10,000	47	350	120	940
S-6-B4	<2.0	0.063	0.096	<0.050	0.20
S-11-B4	21,000	210	1,100	320	2,600
S-6-B5	3.7	<0.050	0.081	<0.050	0.18
S-11-B5	5,400	8.8	27	66	160
S-5.5-B6	<2.0	<0.050	<0.050	<0.050	<0.050
S-10-B6	<2.0	<0.050	<0.050	<0.050	<0.050

Results in milligrams per kilogram or parts per million

TPHg = Total petroleum hydrocarbons as gasoline

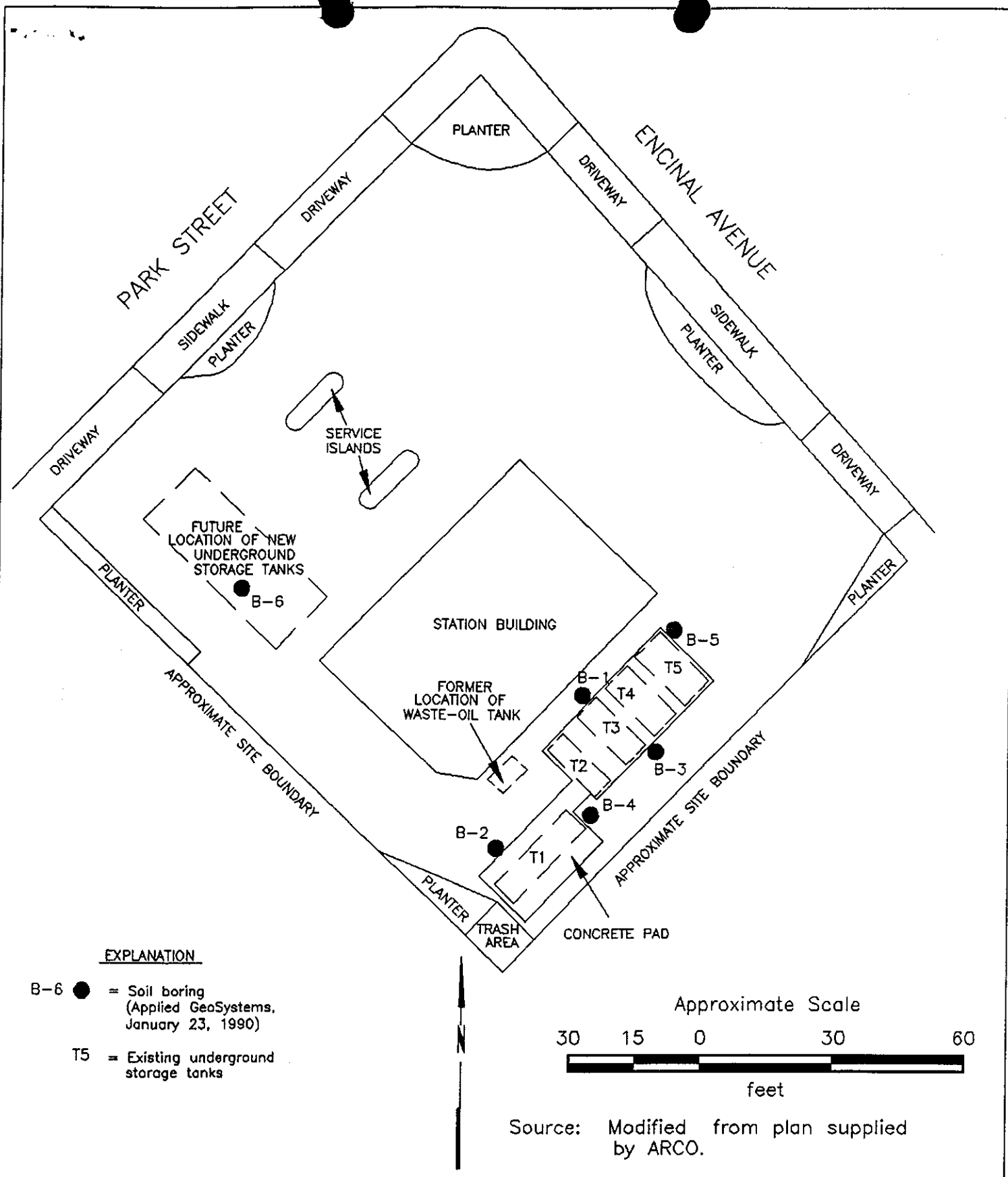
B = benzene E = ethylbenzene T = toluene X = total xylene isomers

< = indicates less than the reported limit

Sample identification:

S-10-B6

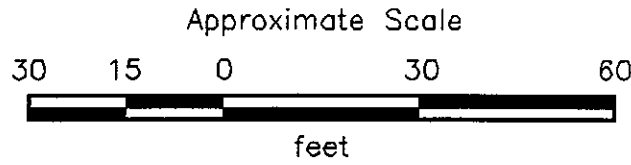
┌───┐ Boring number  
 ┌───┐ Approximate sample depth in feet  
 ┌───┐ Soil sample



EXPLANATION

B-6 ● = Soil boring  
(Applied GeoSystems,  
January 23, 1990)

T5 = Existing underground  
storage tanks



Source: Modified from plan supplied  
by ARCO.



**GENERALIZED SITE PLAN**  
**ARCO Station 2112**  
**1260 Park Street**  
**Alameda, California**

**PLATE**  
**1**

**PROJECT 19011-1**

QUARTERLY SUMMARY REPORT  
Alameda County  
January 1990

ARCO Service Station No. 2112  
1260 Park Street/Encinal Avenue  
Alameda, California

Brief History

- May 14, 1987, a waste-oil tank was removed from the site by Crosby and Overton Environmental, Inc. The former location of the tank is shown on Plate P-1. Two soil samples were collected from the soil beneath the waste-oil tank. Results of soil analyses by Anatec Laboratories, Inc., (letters dated May 19, 1987 and May 27, 1987) are presented in Table 1.
- May 21, 1987, additional contaminated soil was removed from the excavation and was hauled to a Class I landfill. One soil sample was collected at a depth of 6 feet at the bottom of the excavation, and laboratory results of the soil sample indicated no detectable levels of total extractable hydrocarbons as motor oil (Table 1). The excavation was backfilled with clean sand.

Work Performed - Fourth Quarter 1989

- November 14, 1989, mailed copies of file information on behalf of ARCO to Mr. Ariu Levi of the Alameda County Health Agency, as requested by Mr. Levi.

Future Work

- ARCO plans no further work at this site at this time, as indicated in a telephone conversation with Mr. Gerow of the Alameda County Department of Health Services and Brown and Caldwell, on September 28, 1987.

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TABLE 1  
RESULTS OF CHEMICAL ANALYSES  
ON SOIL SAMPLES  
ARCO Service Station No. 2112  
1260 Park Street/Encinal Avenue  
Alameda, California

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Sample Number	Date Sampled	TEH (as diesel fuel)	TEH (as motor oil)
9310-1 (bottom of tank)	5/14/87	430	2,400
9310-2 (west side of tank)	5/15/87	<10	<10
9347-1 (6-foot depth)	5/21/87	NA	<10

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Results in milligrams/kilogram (mg/kg) = parts per million (ppm)

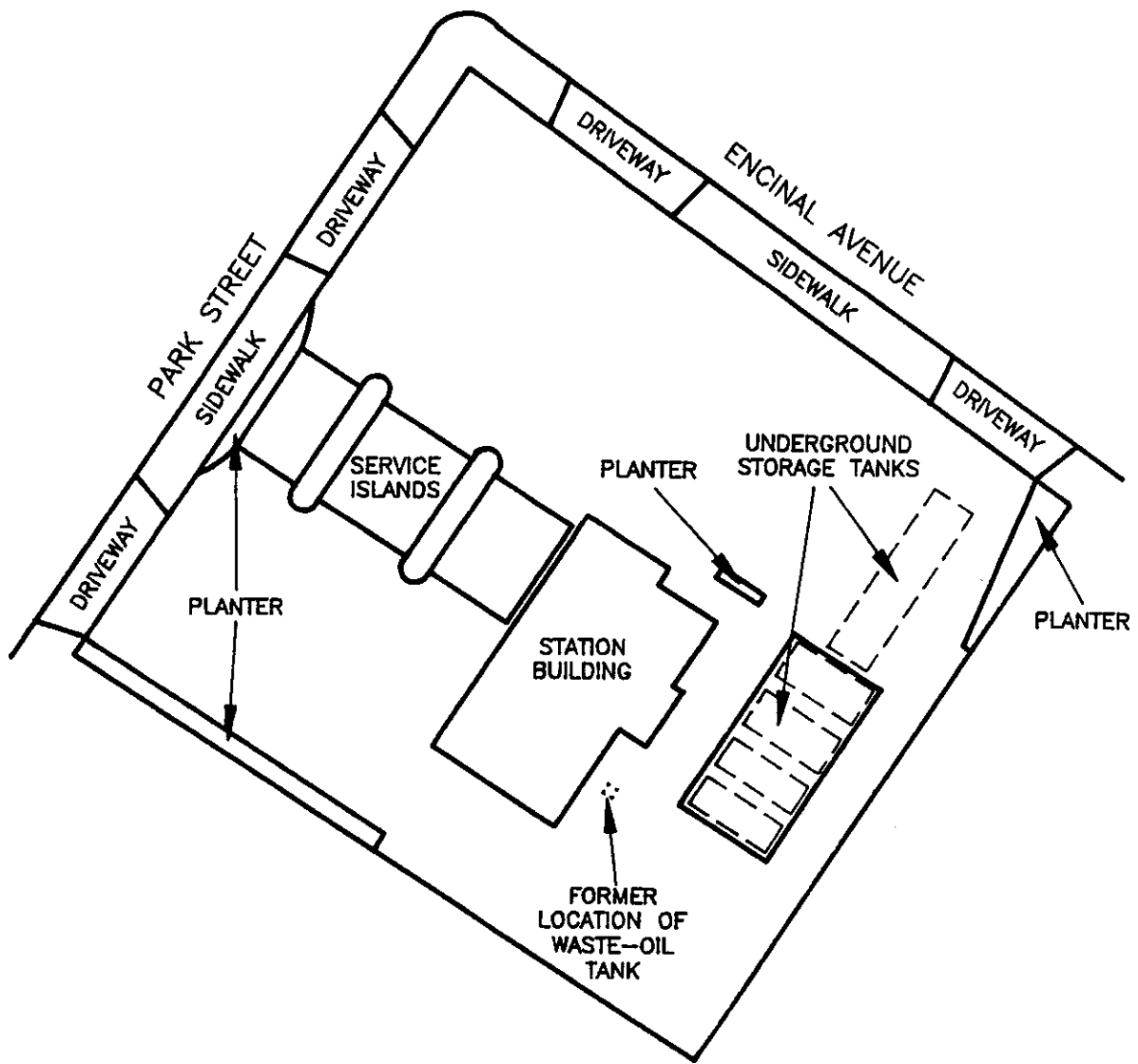
TEH: Total extractable hydrocarbons

NA: Not analyzed

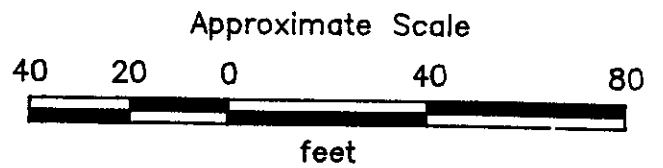
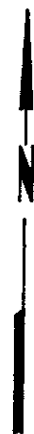
Sampled by Crosby and Overton Environmental Management, Inc.

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Source: Based on ARCO site plan dated 1983



PROJECT NO. 19011-1

**GENERALIZED SITE PLAN**  
**ARCO Station No. 2112**  
**1260 Park Street**  
**Alameda, California**

**PLATE**  
**P - 1**

12/27 m

# 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE. <i>B. Chuck (reviewing file 4/22/90)</i> SIGNED: _____ DATE: _____
REPORT DATE 1_M 2_M 2_D 1_D 8_Y 9_Y	CASE #	

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <b>Alice Scheufler</b>	PHONE <b>(408) 984-6536</b>	SIGNATURE <i>Alice Scheufler</i>	As agent for ARCO
	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 <b>Pacific Enironmetnal Group, Inc.</b>		
	ADDRESS <b>1601 Civic Center Drive, Suite 202, Santa Clara, CA 95050</b>			

RESPONSIBLE PARTY	NAME <b>ARCO Petroleum Products</b>	<input type="checkbox"/> UNKNOWN	CONTACT PERSON <b>Elain Lavine</b>	PHONE <b>(415) 571-2482</b>
	ADDRESS <b>P.O. Box 5811 San Mateo, CA 94402</b>			

SITE LOCATION	FACILITY NAME (IF APPLICABLE) <b>ARCO Service Station No. 2112</b>	OPERATOR <b>Javad Rooshan</b>	PHONE <b>(415) 865-7335</b>
	ADDRESS <b>1260 Park Steret Alameda, CA Alameda 94501</b>		
	CROSS STREET <b>Encinal</b>	TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> OTHER	TYPE OF BUSINESS <input type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER

IMPLEMENTING AGENCIES	LOCAL AGENCY <b>Alameda County Public Health Hazardous Materials Section</b>	AGENCY NAME	CONTACT PERSON <b>Ed Howell</b>	PHONE <b>(415) 271-4320</b>
	REGIONAL BOARD <b>San Francisco Bay Region</b>		<b>Don Dalke</b>	<b>(415) 464-1255</b>

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

DISCOVERY/ABATEMENT	DATE DISCOVERED 1_M 2_M 2_D 0_D 8_Y 9_Y	HOW DISCOVERED <input checked="" type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER
	DATE DISCHARGE BEGAN ____M ____D ____Y ____Y <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 PROCEDURE <input type="checkbox"/> OTHER
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1_M 2_M 2_D 0_D 8_Y 9_Y	

SOURCE/CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	TANKS ONLY: CAPACITY _____ GAL. MATERIAL <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> STEEL <input type="checkbox"/> OTHER AGE _____ YRS <input type="checkbox"/> UNKNOWN	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER
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CASE TYPE	CHECK ONE ONLY <input checked="" 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)
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CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES
----------------	--

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"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) <u>Still investigating</u>
-----------------	--

COMMENTS  
Tank test was performed 11/20/89. When written report was received a low level leak was apparent. Tank was shutdown and clean up is in progress. Regional Water Quality Control Board and Local Health have both been contacted.



## 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 (SES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the SES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the SES 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 25180.7, a designated 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, address, and address of the party responsible for the leak. This party would normally be the tank owner.

### SITE LOCATION

Enter information regarding the tank facility and surrounding area. 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/CASE

Indicate source(s) of leak. Provide details on tank (age) capacity and material if known. 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.

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 on 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.
- 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 in tact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. O. Box 100, Sacramento, CA 95801
3. Regional Water Quality Control Board
4. County Board of Supervisors or designee to receive Proposition 55 notifications.
5. Owner/responsible party.



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

89 DEC 27 AM 10:27

December 22, 1989  
Project No. 330-03.01

Mr. Ed Howell, Senior Specialist  
Alameda County Public Health Service  
Hazardous Materials Section  
80 Swan Way, Suite 200  
Oakland, CA 94621

Subject: ARCO Station #2112  
1260 Park Street  
Alameda, CA 94501

Dear Mr. Howell:

Enclosed is the Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report for the subject ARCO Petroleum Products Company Station. Please distribute the report as noted in the instructions on the reverse side of each form.

If you have any questions or comments regarding this matter, please do not hesitate to call Mrs. Elaine Lavine of ARCO at (415) 571-2482.

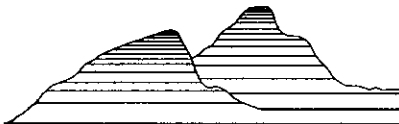
Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.

  
Alice Scheufler

enclosure

c: SWRCB, Sacramento  
RWQCB, Oakland



**Applied GeoSystems**

3315 Almaden Expressway, Suite 34, San Jose, CA 95128 (408) 264-7723

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

89 NOV 20 AM 11:06

November 14, 1989  
1114alev

Mr. Ariu Levi  
Hazardous Materials Specialist  
Alameda County Health Agency  
80 Swan Way, Room 200  
Oakland, California 94621

Subject: File Information on ARCO Station No. 2112, 1260 Park Street, Alameda, California.


Mr. Levi:

As you requested on November 11, 1989, and as authorized by Mr. Kyle Christie of ARCO Products Company (ARCO), enclosed are copies of records on file with ARCO regarding the subject site. This information includes:

- o laboratory reports (Anatec Laboratories Inc., of Santa Rosa, California) and chain of custody records (Environmental Management, Inc. of Long Beach, California), for three soil samples collected at the site in May 1987,
- o a letter, dated June 8, 1987, from Ms. Ellen Cianciaruli of ARCO to Mr. Ted Gerow of the Alameda County Health Agency, and
- o a "record of telephone conversation", dated September 28, 1987, reporting a telephone conversation between S. Hetznecker of Brown and Caldwell, of Walnut Creek, California, and Mr. Gerow of the Alameda County Health Agency.

Please call if we can be of any further assistance in this matter.

Sincerely,  
Applied GeoSystems

  
Greg Barclay  
Project Branch Manager

cc: Mr. Kyle Christie, ARCO

880101 050108

12/27

# 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.	
REPORT DATE 1_M 2_M 2_D 1_D 8_Y 9_Y		CASE #		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Alice Scheufler		PHONE (408) 984-6536	SIGNATURE As agent for ARCO <i>Alice Scheufler</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 Pacific Environmental Group, Inc.		
	ADDRESS 1601 Civic Center Drive, Suite 202, Santa Clara, CA 95050				
RESPONSIBLE PARTY	NAME ARCO Petroleum Products		<input type="checkbox"/> UNKNOWN	CONTACT PERSON Elain Lavine	PHONE (415) 571-2482
	ADDRESS P.O. Box 5811 San Mateo, CA 94402				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Service Station No. 2112		OPERATOR Javad Rooshan		PHONE (415) 865-7335
	ADDRESS 1250 Park Street, Alameda, CA Alameda 94501				
	CROSS STREET Encinal	TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> OTHER		TYPE OF BUSINESS <input type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER	
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Public Health Hazardous Materials Section		AGENCY NAME		CONTACT PERSON Ed Howell
	REGIONAL BOARD San Francisco Bay Region				PHONE (415) 271-4320
SUBSTANCES INVOLVED	(1) Gasoline		NAME		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)				<input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 1_M 2_M 2_D 0_D 8_Y 9_Y		HOW DISCOVERED <input checked="" type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER		
	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"/> REPAIR TANK <input checked="" type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1_M 2_M 2_D 0_D 8_Y 9_Y				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		TANKS ONLY/CAPACITY ____ GAL. <input type="checkbox"/> FIBERGLASS AGE ____ YRS <input type="checkbox"/> STEEL <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER
	CHECK ONE ONLY <input checked="" 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 checked="" type="checkbox"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES				
	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"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) Still investigating				
COMMENTS	Tank test was performed 11/20/89. When written report was received a low level leak was apparent. Tank was shutdown and clean up is in progress. Regional Water Quality Control Board and Local Health have both been contacted.				

## 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 25180.7, a designated 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, company name, and address of the party responsible for the leak. Indicate which party would normally be the tank owner.

### SITE LOCATION

Enter information regarding the tank facility and surrounding area. 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. Form 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. Provide details on tank age, capacity and material if known. 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.

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 contaminants.
- Excavate and Dispose - remove contaminated soil and dispose in approved site.
- Excavate and Treat - remove contaminated soil and treat (includes generating off-site sludge).
- Airspun Fibre Products - remove floating product from water.
- 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 alternate water supply to affected premises.
- Treatment of Stockpiles - install water treatment devices at each dwelling or other place of use.
- 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 in tact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. O. Box 100, Sacramento, CA 95801
3. Regional Water Quality Control Board
4. County Board of Supervisors or assignee to receive Proposition 65 notifications.
5. Owner/responsible party.

FUELLEAK CASE RECORD

7/2

REVIEW DATE: 8, 3, 87  
SITE NAME: ARCO  
STREET NO.: 1260  
STREET: Park  
CITY: Alameda  
COUNTY: 01  
PRIORITY: 03  
RANK: -  
SUBSTANCE/PRIMARY: 12035  
SUBSTANCE/SECONDARY: -  
CASE TYPE: u  
STATUS: ~~o~~ X

SOIL AFFECTED: Y  
MAXIMUM SOIL CONCENTRATION (ppm): 2400  
MAXIMUM RESIDUAL SOIL CONCENTRATION (ppm): ~~240~~ 10  
SOIL STATUS: X  
DEPTH TO GROUNDWATER: u  
GROUNDWATER AFFECTED: u  
MAXIMUM GROUNDWATER IMPACT: u  
GROUNDWATER STATUS: N  
DRINKING WATER AFFECTED: u  
DRINKING WATER STATUS: N  
REMEDIAL ACTION: ED  
DATE OF LAST CORR.: 6/30/87

Comments:

mcp  
NFA prepared

7/19/87 B3 657 652

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

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

EMERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO

STATE TANK ID #

REPORT DATE 06/30/87

LOCAL CASE #

REGIONAL BOARD CASE #

US EPA ID 1987

NAME OF INDIVIDUAL FILING REPORT ELLEN CIANCIALI

PHONE (707) 887-2476

SIGNATURE Ellen Cianciali

REPRESENTING OWNER/OPERATOR LOCAL AGENCY OTHER REGIONAL BOARD

COMPANY OR AGENCY NAME ARCO PETROLEUM PRODUCTS

ADDRESS P.O. Box 5811 SAN MATEO CA 94402

RESPONSIBLE PARTY NAME UNKNOWN

CONTACT PERSON

PHONE

ADDRESS STREET CITY STATE ZIP

SITE LOCATION FACILITY NAME (IF APPLICABLE) ARCO AM/PM 55# 2112

OPERATOR PRESTIGE STATIONS, INC.

PHONE (415) 865-2291

ADDRESS 1260 PARK STREET ALAMEDA ALAMEDA COUNTY 94501

CROSS STREET ENCINAL TYPE OF AREA COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL OTHER

TYPE OF BUSINESS RETAIL FUEL STATION UNKNOWN OTHER

LOCAL AGENCY ALAMEDA COUNTY HEALTH DEPT. AGENCY NAME

CONTACT PERSON TED GEROW

PHONE (415) 874-6434

REGIONAL BOARD TSCD

SUBSTANCES INVOLVED CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME WASTE OIL QUANTITY LOST (GALLONS) UNKNOWN

DISCOVERY/ABATEMENT DATE DISCOVERED 05/14/87 HOW DISCOVERED TANK REMOVAL

INVENTORY CONTROL SUBSURFACE MONITORING ROUTINE MONITORING NUISANCE CONDITIONS OTHER

DATE DISCHARGE BEGAN UNKNOWN

METHOD USED TO STOP DISCHARGE REMOVE CONTENTS REPLACE TANK CLOSE TANK

HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE 05/14/87

REPAIR TANK REPAIR PIPING CHANGE PROCEDURES OTHER TANK REMOVED

SOURCE/CAUSE SOURCE(S) OF DISCHARGE TANK LEAK UNKNOWN PIPING LEAK

TANKS ONLY/CAPACITY 550 GAL AGE YRS. UNKNOWN MATERIAL STEEL FIBERGLASS OTHER

CAUSE(S) OVERFILL CORROSION RUPTURE/FAILURE SPILL UNKNOWN OTHER

OTHER (SPECIFY) OVERFILL

Table with 4 columns: RESOURCES AFFECTED, YES, NO, THREATENED, UNKNOWN. Rows include AIR (VAPOR), SOIL (VADOSE ZONE), GROUNDWATER, SURFACE WATER OR STORM DRAIN, BUILDING OR UTILITY VAULT, OTHER (SPECIFY).

Table with 4 columns: WATER SUPPLIES AFFECTED, YES, NO, THREATENED, UNKNOWN, # OF WELLS. Rows include PUBLIC DRINKING WATER, PRIVATE DRINKING WATER, INDUSTRIAL, AGRICULTURAL, OTHER (SPECIFY).

GROUNDWATER BASIN NAME UNKNOWN

COMMENTS: Upon routine removal of waste oil tank, first set of soil test results were 2400 ppm hydrocarbons. After additional excavation, the second set of soil test results were less than 10 ppm hydrocarbons. Excavation was backfilled and soil removed to a dump site. Soil reports sent to county on June 8, 1987.





435 Tesconi Circle

Santa Rosa, California 95401

707-526-7200

Dan Heath  
Crosby & Overton  
8430 Amelia Street  
Oakland, CA 94621

May 19, 1987  
ANATEC Log No. 9310 (1-2)  
Series No: 356/007  
Client Ref: Job 694

Subject: Analysis of Two Soil Samples Referenced "ARCO, 1260  
Park St., Alameda" Received May 15 on an ASAP Priority  
Basis

55# 2112

Dear Mr. Heath:

Analysis of the samples referenced above has been completed. This report is written to confirm results transmitted verbally on May 18, 1987.

Samples were prepared for motor oil and diesel fuel analysis by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times for each sample. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of samples was accompanied by similar treatment of a method blank and a fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil and diesel fuel were compared with system response to samples for purposes of qualitative and quantitative interpretation.

Details of the analytical methodology are consistent with requirements specified in "Guidelines for Addressing Fuel Leaks," revised February, 1986, Regional Water Quality Control Board, San Francisco Bay Region; the preparation procedures used are described in detail in, "Sonication Extraction," Method 3550, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA SW-846, 2nd edition, revised 1985.

Results of analyses are summarized below in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Approved by:

*Susan Joy Griffin*  
 Susan Joy Griffin  
 Project Chemist

*Greg Anderson*  
 Greg Anderson, Director  
 Analytical Laboratories

Encl: Custody Record

TABLE 1. SUMMARIZED ANALYTICAL TESTING RESULTS

Parameter	Bottom of Tank 5-14-87 D. Liles (9310-1)	West Side of Tank 5-15-87 D. Liles (9310-2)
Extractable hydrocarbons as diesel fuel (mg/Kg) <sup>a</sup>	430 ppm	<10
Extractable hydrocarbons as motor oil (mg/Kg) <sup>b</sup>	2,400 ppm	<10

<sup>a</sup>Data are expressed in units of milligrams diesel fuel per liter sample, as-received basis.

<sup>b</sup>Data are expressed in units of milligrams motor oil per liter sample, as-received basis.

9310

CHAIN OF CUSTODY RECORD

LOCATION OF SAMPLING: \_\_\_\_\_ PRODUCER \_\_\_\_\_ HAULER  \_\_\_\_\_ DISPOSAL SITE \_\_\_\_\_

OTHER: Waste oil  
SAMPLE

SHIPPER NAME: ARCO

ADDRESS: 1260 Park St. Alameda, CA 94501  
NUMBER STREET CITY STATE ZIP

COLLECTOR'S NAME [Signature] TELEPHONE: (415) 633-0336  
SIGNATURE

DATE SAMPLED 5-14-87 TIME SAMPLES 1400 HOURS 1/2

TYPE OF PROCESS PRODUCING WASTE Tank Removal

FIELD INFORMATION 2 soil samples waste oil below tank

SAMPLE RECEIVER:

1. Anatec, 435 Tesconi Circle, Santa Rosa, CA 95401  
-NAME AND ADDRESS OF ORGANIZATION RECEIVING SAMPLE-

2. \_\_\_\_\_

3. \_\_\_\_\_

CHAIN OF POSSESSION:

1. [Signature] Response Tech. 5-15-87  
SIGNATURE TITLE INCLUSIVE DATES

2. [Signature] National Courier Systems 5-15-87  
SIGNATURE TITLE INCLUSIVE DATES

3. [Signature] [Signature] 5-15-87  
SIGNATURE TITLE INCLUSIVE DATES

FIGURE 2.0-3

COLLECTOR'S SAMPLE N

EXAMPLE OF CHAIN OF CUSTODY RECORD



RECEIVED  
MAY 29 1987  
Ans'd.....

435 Tesconi Circle

Santa Rosa, California 95401

707-526-7200

Dan Heath  
Crosby & Overton  
8430 Amelia Street  
Oakland, CA 94621

May 27, 1987  
ANATEC Log No. 9347 (-1)  
Series No: 356/008  
Client Ref: Job # 694

Subject: ASAP Analysis of One Soil Sample Identified as "ARCO  
Station, 1260 Park, Alameda, CA" Received May 22, 1987.

S# 2112

Dear Mr. Heath:

Analysis of the sample referenced above has been completed. This report is written to confirm results transmitted verbally on May 26, 1987.

Sample delivery to the laboratory was conducted under chain-of-custody. On receipt, sample custody was transferred to ANATEC sample control personnel who subsequently documented receipt and condition of the sample and placed it in secured storage at 4 °C until analysis commenced.

The sample was prepared for extractable hydrocarbons measurement by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of the sample was accompanied by similar treatment of a method blank and a motor oil-fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil were compared with system response to the sample for purposes of qualitative and quantitative interpretation.

Details of the analytical methodology are consistent with requirements specified in "Guidelines for Addressing Fuel Leaks," revised February, 1986, Regional Water Quality Control Board, San Francisco Bay Region; the preparation procedures used are described in detail in, "Sonication Extraction," Method 3550 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA SW-846, 2nd edition, revised 1984.



Results of analysis are summarized in Table 1. Attached is the custody document. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Approved by:

*Susan Joy Griffin*  
Susan Joy Griffin  
Project Chemist

*Greg Anderson*  
Greg Anderson, Director  
Analytical Laboratories

Encl: Custody Record

TABLE 1. SUMMARIZED RESULTS FOR "5/21/87 R CAMPBELL #2 FROM 6' DEPTH 1030" (ARCO STATION, 1260 PARK, ALAMEDA, CA) (ANATEC LAB NO. 9347-1)

<u>Parameter</u>	<u>Results (mg/Kg)<sup>1</sup></u>
(Extractable) Petroleum Hydrocarbons, as motor oil	<10

<sup>1</sup>Data are milligrams motor oil per kilogram sample, as-received basis.



CHAIN OF CUSTODY RECORD

LOCATION OF SAMPLING: \_\_\_\_\_ PRODUCER \_\_\_\_\_ HAULER \_\_\_\_\_ DISPOSAL SITE \_\_\_\_\_  
 OTHER: ARCO STATION 1260 PARK, ALAMEDA

SHIPPER NAME: Crosby & Overton <sup>SAMPLE</sup>

ADDRESS: 8430 ANGELA ST. OAKLAND CA 94621  
NUMBER STREET CITY STATE ZIP

COLLECTOR'S NAME MR. Campbell TELEPHONE: (415) 633-0336  
SIGNATURE

DATE SAMPLED 5/21/87 TIME SAMPLED 1030 HOURS \_\_\_\_\_

TYPE OF PROCESS PRODUCING WASTE WASTE OIL TANK REMOVAL

FIELD INFORMATION \_\_\_\_\_  
SECONDARY SAMPLE FROM 6 FEET EXCAVATION

SAMPLE RECEIVER: Bruce G. Cunningham

1. Bruce G. Cunningham ANATEL 5/21/87 3:30p  
-NAME AND ADDRESS OF ORGANIZATION RECEIVING SAMPLE

2. \_\_\_\_\_  
 3. \_\_\_\_\_

CHAIN OF POSSESSION:

1. <u>Bruce G. Cunningham</u> <small>SIGNATURE</small>	_____	_____
	<small>TITLE</small>	<small>INCLUSIVE DATES</small>
2. <u>Judy Hedley</u> <small>SIGNATURE</small>	_____	_____
	<small>TITLE</small>	<small>INCLUSIVE DATES</small>
3. _____ <small>SIGNATURE</small>	_____	_____
	<small>TITLE</small>	<small>INCLUSIVE DATES</small>

9347

FIGURE 2.0-3

COLLECTOR'S SAMPLE NO. \_\_\_\_\_

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



Alameda County Health Department  
470 27th Street  
Oakland, California 94612  
Attn: Ted Gerow

June 8, 1987

Re: SS#2112, 1260 Park Blvd., Alameda, Ca.

Dear Mr. Gerow,

Enclosed are soil sample test results from the above-mentioned site. After removal of a waste oil tank, we obtained samples at the bottom of the excavation. All soil removed has been hauled to a Class I dump site and the excavation backfilled with clean sand.

If you have any questions, please call.

Sincerely,

  
Ellen Cianciaruli

cc:K.Schultheis

RECORD OF TELEPHONE CONVERSATION

DATE: 9-28-87

JOB:

Individual	Organization	Telephone No.
FROM: S. Hetzner	Brown & Caldwell	937-9010
TO: MR. Gerow	Alameda Co Dept. of Health Ser.	874-6434

SUBJECT: Arco Service Station 2112  
1260 Park St, Alameda CA

NOTES:

According to information in the county file, specifically a letter dated June 16, 1987 from Ellen Cianciarula of Arco, says that the "dirty" soil was excavated and removed, and analysis shows the hole was excavated to cleanliness.

Mr. Gerow says everything looks OK as far as the county goes.

No further action at this point.

His only question is: will the site remain a service station?

(continued on back)

ACTIONS REQUIRED:



## QUARTERLY SUMMARY REPORT

Alameda County

September 1989

**ARCO Service Station No. 2112  
1260 Park Street/Encinal Avenue  
Alameda, California**

### Brief History

- May 14, 1987, a waste-oil tank was removed from the site by Crosby and Overton Environmental, Inc. The former location of the tank is shown on Plate P-1. Two soil samples were collected from the soil beneath the waste-oil tank. Results of soil analyses by Anatec Laboratories, Inc., (letters dated May 19, 1987 and May 27, 1987) are presented in Table 1.
- May 21, 1987, additional contaminated soil was removed from the excavation and was hauled to a Class I landfill. One soil sample was collected at a depth of 6 feet at the bottom of the excavation, and laboratory results of the soil sample indicated no detectable levels of total extractable hydrocarbons as motor oil (Table 1). The excavation was backfilled with clean sand.

### Future Work

- ARCO plans no further work at this site at this time, as indicated in a telephone conversation with Mr. Gerow of the Alameda County Department of Health Services and Brown and Caldwell, on September 28, 1987.

TABLE 1  
RESULTS OF CHEMICAL ANALYSES  
ON SOIL SAMPLES  
ARCO Service Station No. 2112  
1260 Park Street/Encinal Avenue  
Alameda, California

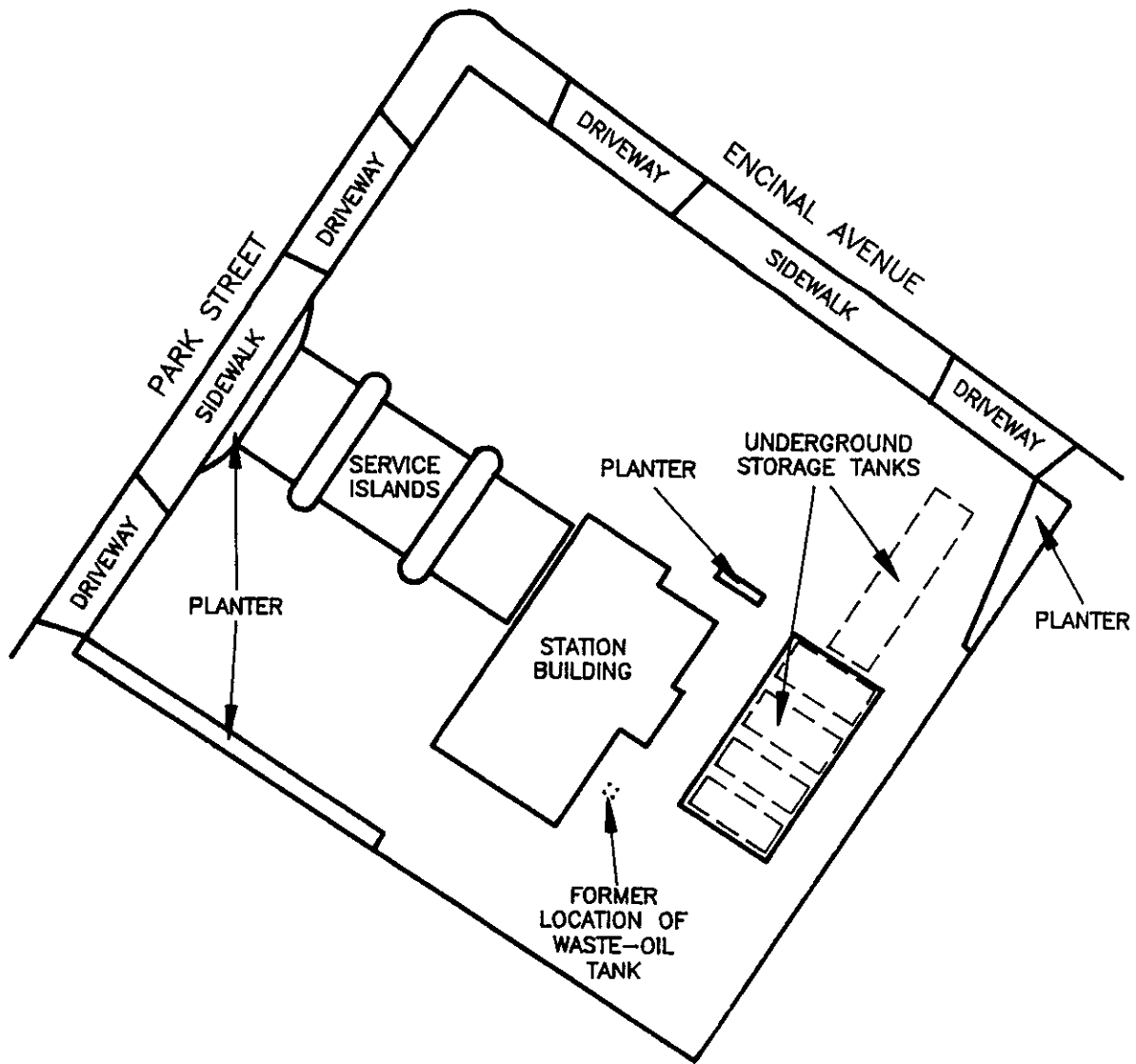
Sample Number	Date Sampled	TEH (as diesel fuel)	TEH (as motor oil)
9310-1 (bottom of tank)	5/14/87	430	2,400
9310-2 (west side of tank)	5/15/87	<10	<10
9347-1 (6-foot depth)	5/21/87	NA	<10

Results in milligrams/kilogram (mg/kg) = parts per million (ppm)

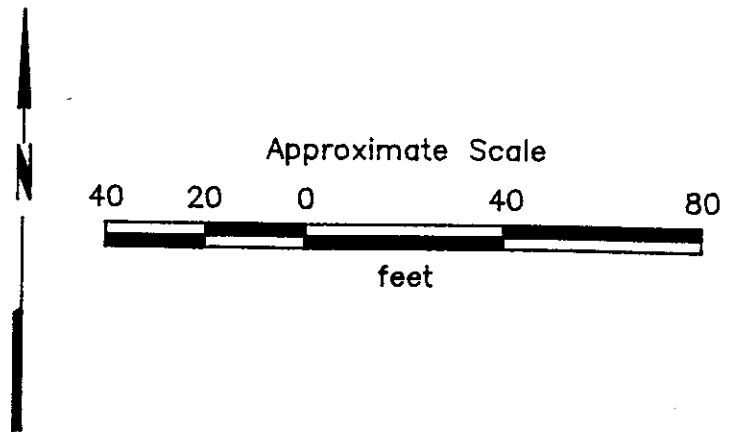
TEH: Total extractable hydrocarbons

NA: Not analyzed

Sampled by Crosby and Overton Environmental Management, Inc.



Source: Based on ARCO site plan dated 1983



PROJECT NO. 19011-1

**GENERALIZED SITE PLAN**  
**ARCO Station No. 2112**  
**1260 Park Street**  
**Alameda, California**

**PLATE**  
**P - 1**

QUARTERLY SUMMARY REPORT  
Alameda County  
July 1989

ARCO Service Station No. 2112  
1260 Park Street/Encinal Avenue  
Alameda, California

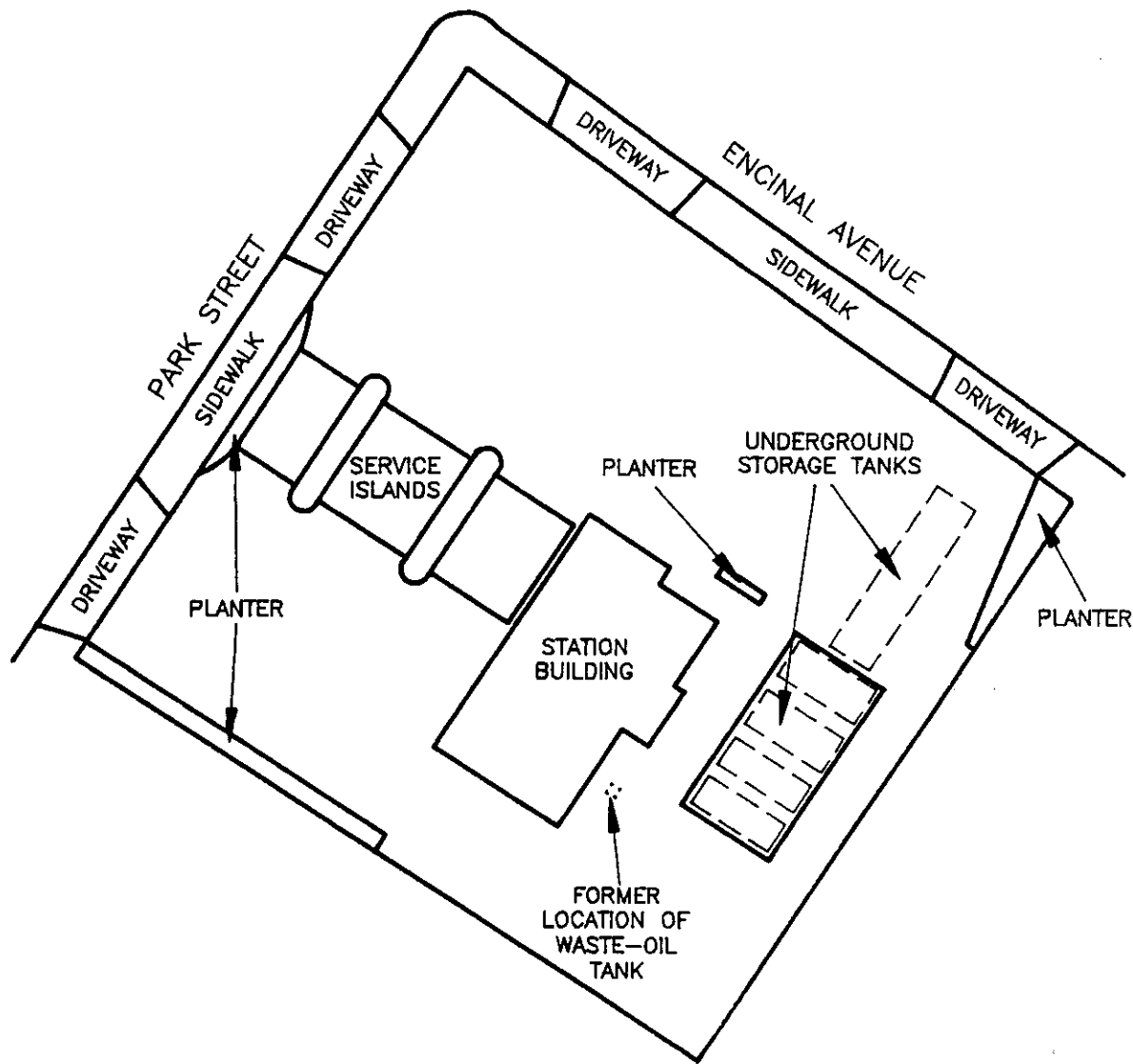
Brief History

- May 14, 1987, a waste-oil tank was removed from the site by Crosby and Overton Environmental, Inc. The former location of the tank is shown on Plate P-1. Two soil samples were collected from the soil beneath the waste-oil tank. Results of soil analyses by Anatec Laboratories, Inc., (letters dated May 19, 1987 and May 27, 1987) are presented in Table 1.
- May 21, 1987, additional contaminated soil was removed from the excavation and was hauled to a Class I landfill. One soil sample was collected at a depth of 6 feet at the bottom of the excavation, and laboratory results of the soil sample indicated no detectable levels of total extractable hydrocarbons as motor oil (Table 1). The excavation was backfilled with clean sand.
- ARCO plans no further work at this site at this time, as indicated in a telephone conversation with Mr. Gerow of the Alameda County Department of Health Services and Brown and Caldwell, on September 28, 1987.

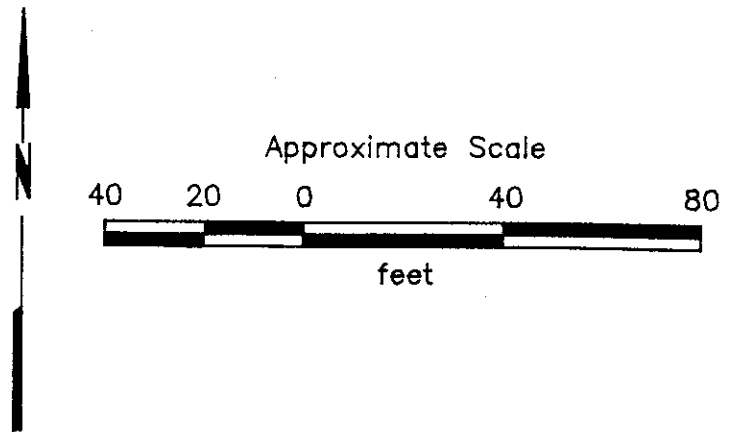
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RESULTS OF CHEMICAL ANALYSES  
ON SOIL SAMPLES  
Arco Service Station No. 2112  
1260 Park Street/Encinal Avenue  
Alameda, California

Sample Number	Date Sampled	TEH (as diesel fuel)	TEH (as motor oil)
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9310-2 (west side of tank)	5/15/87	<10	<10
9347-1 (6-foot depth)	5/21/87	NA	<10

Results in milligrams/kilogram (mg/kg) = parts per million (ppm)  
TEH: Total extractable hydrocarbons  
NA: Not analyzed  
Sampled by Crosby and Overton Environmental Management, Inc.



Source: Based on ARCO site plan dated 1983



**PROJECT NO. 19011-1**

**GENERALIZED SITE PLAN  
ARCO Station No. 2112  
1260 Park Street  
Alameda, California**

**PLATE  
P - 1**

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

*SS# 2112 TANKS*



Alameda County Health Department  
470 27th Street  
Oakland, California 94612  
Attn: Ted Gerow

June 8, 1987

Re: SS#2112, 1260 Park Blvd., Alameda, Ca.

Dear Mr. Gerow,

Enclosed are soil sample test results from the above-mentioned site. After removal of a waste oil tank, we obtained samples at the bottom of the excavation. All soil removed has been hauled to a Class I dump site and the excavation backfilled with clean sand.

If you have any questions, please call.

Sincerely,

*Ellen Cianciaruli*  
Ellen Cianciaruli

cc:K.Schultheis

RECEIVED  
JUN 10 1987

ENVIRONMENTAL HEALTH  
ADMINISTRATION



ANATEC  
LABORATORIES  
INC.

RECEIVED  
MAY 29 1987  
Ans'd.....

435 Tesconi Circle

Santa Rosa, California 95401

707-526-7200

Dan Heath  
Crosby & Overton  
8430 Amelia Street  
Oakland, CA 94621

May 27, 1987  
ANATEC Log No. 9347 (-1)  
Series No: 356/008  
Client Ref: Job # 694

Subject: ASAP Analysis of One Soil Sample Identified as "ARCO  
Station, 1260 Park, Alameda, CA" Received May 22, 1987.

Dear Mr. Heath:

Analysis of the sample referenced above has been completed. This report is written to confirm results transmitted verbally on May 26, 1987.

Sample delivery to the laboratory was conducted under chain-of-custody. On receipt, sample custody was transferred to ANATEC sample control personnel who subsequently documented receipt and condition of the sample and placed it in secured storage at 4 °C until analysis commenced.

The sample was prepared for extractable hydrocarbons measurement by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of the sample was accompanied by similar treatment of a method blank and a motor oil-fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil were compared with system response to the sample for purposes of qualitative and quantitative interpretation.

Details of the analytical methodology are consistent with requirements specified in "Guidelines for Addressing Fuel Leaks," revised February, 1986, Regional Water Quality Control Board, San Francisco Bay Region; the preparation procedures used are described in detail in, "Sonication Extraction," Method 3550 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA SW-846, 2nd edition, revised 1984.





Results of analysis are summarized in Table 1. Attached is the custody document. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Approved by:

*Susan Joy Griffin*  
Susan Joy Griffin  
Project Chemist

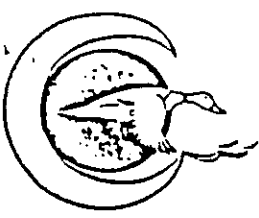
*Greg Anderson*  
Greg Anderson, Director  
Analytical Laboratories

Encl: Custody Record

TABLE 1. SUMMARIZED RESULTS FOR "5/21/87 R CAMPBELL #2 FROM 6' DEPTH 1030" (ARCO STATION, 1260 PARK, ALAMEDA, CA) (ANATEC LAB NO. 9347-1)

<u>Parameter</u>	<u>Results (mg/Kg)<sup>1</sup></u>
(Extractable) Petroleum Hydrocarbons, as motor oil	<10

<sup>1</sup>Data are milligrams motor oil per kilogram sample, as-received basis.



CHAIN OF CUSTODY RECORD

LOCATION OF SAMPLING: \_\_\_\_\_ PRODUCER \_\_\_\_\_ HAULER \_\_\_\_\_ DISPOSAL SITE \_\_\_\_\_  
 OTHER: ARCO STATION 1260 PARK, ALAMEDA CA.

SHIPPER NAME: CROSBY & OVERTON

ADDRESS: 8430 ANGELIA ST. OAKLAND CA 94621  
NUMBER STREET CITY STATE ZIP

COLLECTOR'S NAME MR. CAMPBELL TELEPHONE: (415) 633-0336  
SIGNATURE

DATE SAMPLED 5/21/87 TIME SAMPLES 030 HOURS \_\_\_\_\_

TYPE OF PROCESS PRODUCING WASTE WASTE OIL TANK REMOVAL

FIELD INFORMATION \_\_\_\_\_  
SECONDARY SAMPLE FROM 6 FEET EXCAVATION

SAMPLE RECEIVER: Bruce G. Cunningham

- Bruce G. Cunningham ANATEL 5/21/87 3:30pm  
-NAME AND ADDRESS OF ORGANIZATION RECEIVING SAMPLE-
- \_\_\_\_\_
- \_\_\_\_\_

CHAIN OF POSSESSION:

1.	<u>Bruce G. Cunningham</u> <small>SIGNATURE</small>	_____	_____
		<small>TITLE</small>	<small>INCLUSIVE DATES</small>
2.	<u>Janet Redley</u> <small>SIGNATURE</small>	_____	_____
		<small>TITLE</small>	<small>INCLUSIVE DATES</small>
3.	_____	_____	_____
	<small>SIGNATURE</small>	<small>TITLE</small>	<small>INCLUSIVE DATES</small>

(THC Waste oil per B) 5/22

9347

FIGURE 2.0-3

COLLECTOR'S SAMPLE NO. \_\_\_\_\_



ANATEC  
LABORATORIES  
INC.

RECEIVED  
MAY 21 1987  
Ans'd.

435 Tesconi Circle

Santa Rosa, California 95401

707-526-7200

Dan Heath  
Crosby & Overton  
8430 Amelia Street  
Oakland, CA 94621

May 19, 1987  
ANATEC Log No. 9310 (1-2)  
Series No: 356/007  
Client Ref: Job 694

Subject: Analysis of Two Soil Samples Referenced "ARCO, 1260 Park St., Alameda" Received May 15 on an ASAP Priority Basis

Dear Mr. Heath:

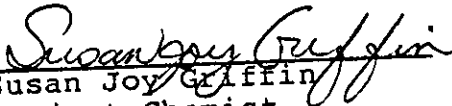
Analysis of the samples referenced above has been completed. This report is written to confirm results transmitted verbally on May 18, 1987.

Samples were prepared for motor oil and diesel fuel analysis by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times for each sample. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of samples was accompanied by similar treatment of a method blank and a fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil and diesel fuel were compared with system response to samples for purposes of qualitative and quantitative interpretation.


Details of the analytical methodology are consistent with requirements specified in "Guidelines for Addressing Fuel Leaks," revised February, 1986, Regional Water Quality Control Board, San Francisco Bay Region; the preparation procedures used are described in detail in, "Sonication Extraction," Method 3550, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA SW-846, 2nd edition, revised 1985.

Results of analyses are summarized below in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

  
 Susan Joy Griffin  
 Project Chemist

Approved by:

  
 Greg Anderson, Director  
 Analytical Laboratories

Encl: Custody Record

TABLE 1. SUMMARIZED ANALYTICAL TESTING RESULTS

Parameter	Bottom of Tank 5-14-87 D. Liles (9310-1)	West Side of Tank 5-15-87 D. Liles (9310-2)
Extractable hydrocarbons as diesel fuel (mg/Kg) <sup>a</sup>	430 ppm	<10
Extractable hydrocarbons as motor oil (mg/Kg) <sup>b</sup>	2,400 ppm	<10

<sup>a</sup>Data are expressed in units of milligrams diesel fuel per liter sample, as-received basis.

<sup>b</sup>Data are expressed in units of milligrams motor oil per liter sample, as-received basis.



STATE  
Hickinulley

9310

CHAIN OF CUSTODY RECORD

LOCATION OF SAMPLING: \_\_\_\_\_ PRODUCER \_\_\_\_\_ HAULER  \_\_\_\_\_ DISPOSAL SITE \_\_\_\_\_

OTHER: Waste Oil  
SAMPLE

SHIPPER NAME: ARCO

ADDRESS: 1260 Park St. Alameda, CA 94501  
NUMBER STREET CITY STATE ZIP

COLLECTOR'S NAME Careno LB TELEPHONE: (415) 633-0336  
SIGNATURE

DATE SAMPLED 5-14-87 TIME SAMPLES 1400 HOURS 1/2

TYPE OF PROCESS PRODUCING WASTE Tank Removal

FIELD INFORMATION 2 soil samples waste oil  
below tank

SAMPLE RECEIVER:

1. Anatec, 435 Tesconi Circle, Santa Rosa, CA 95401  
-NAME AND ADDRESS OF ORGANIZATION RECEIVING SAMPLE-

2. \_\_\_\_\_  
3. \_\_\_\_\_

CHAIN OF POSSESSION:

1.	<u>Mary Ann Bennett</u> SIGNATURE	<u>Response Tech.</u> TITLE	<u>5-15-87</u> INCLUSIVE DATES
-2.	<u>Johnson</u> SIGNATURE	<u>National Courier Systems</u> <u>Courier</u> TITLE	<u>5-15-87</u> INCLUSIVE DATES
3.	<u>Janet Rudrow</u> SIGNATURE	<u>Administrative Asst.</u> TITLE	<u>5-15-87</u> INCLUSIVE DATES

FIGURE 2.0-3

COLLECTOR'S SAMPLE NO. \_\_\_\_\_

EXAMPLE OF CHAIN OF CUSTODY RECORD