

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

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

FAX COVER SHEET

DATE: August 16, 19 95

TO: MICHAEL WHELAND

ARCO

FAX # (408) 377-8361

Total number of pages including cover sheet 2

FROM: SUSAN HUGO

NOTE:

Per your request.

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

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

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

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

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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

01-0443

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 11/10/94	CASE # NA	SIGNED	DATE
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REPORTED BY	NAME OF INDIVIDUAL FILING REPORT C.A. RYBAK	PHONE (714) 670-5405	SIGNATURE <i>C.A. Rybak</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ARCO Products Co.	
	ADDRESS PO Box 6038 ARTESIA CA 90702-6038		

RESPONSIBLE PARTY	NAME ARCO Products Co. <input type="checkbox"/> UNKNOWN	CONTACT PERSON C.A. RYBAK	PHONE (714) 670-5405
	ADDRESS PO BOX 6038 STREET ARTESIA CITY CA 90702-6038		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Facility # 374	OPERATOR John Chao	PHONE (510) 658-7508
	ADDRESS 6407 Telegraph Ave. OAKLAND CITY ALAMEDA COUNTY 94609		
	CROSS STREET ALCANTARA/Telegraph		

IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Public Health Services	AGENCY NAME	CONTACT PERSON Leslie Peters	PHONE (510) 567-6700
	REGIONAL BOARD			PHONE ()

SUBSTANCES INVOLVED	(1) NAME Benzene in water (rain)	QUANTITY LOST (GALLONS) 1 gal	<input type="checkbox"/> UNKNOWN
	(2)		<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 11/10/94	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER VISUAL	<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN 11/10/94	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 UNIT TURNED OFF	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 11/10/94		

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 type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER RAIN
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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)
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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
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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) Contractor cleaned up
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COMMENTS	Tried to reach residents all day. Finally called Leslie Peters and he just said to report. 11-7-94
----------	--

cc k. christie

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

ALCO
HAZMAT



96 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 Zurinden 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	Debble 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	

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 Fax (408) 441-7539
		Cleve Solomon 650 N Sierra Madre Villa, Suite 204 Pasadena, CA 91107 (818) 351-4814 -- Fax (818) 351-4822	SW	
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 Fax (916) 456-0110
		Kyle Emerson 1180 Nevada St, Suite 200 Redlands, CA 92374 (909) 335-6116 --- Fax (909) 335-6120	SW	
		Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 --- Fax (805) 546-0583	SW	

93 SEP 20 PM 12: 21

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

TRANSMITTAL

TO: Ms. Susan Hugo
Alameda County Health
Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

DATE: September 15, 1993
PROJECT NUMBER: 61026.02
SUBJECT: Site Status Updates
ARCO Various Station
PAGE No.: 1 of 1

FROM: John C. Young

2078

WE ARE SENDING YOU:

COPIES DATED

DESCRIPTION

Site Status Update for ARCO Stations:

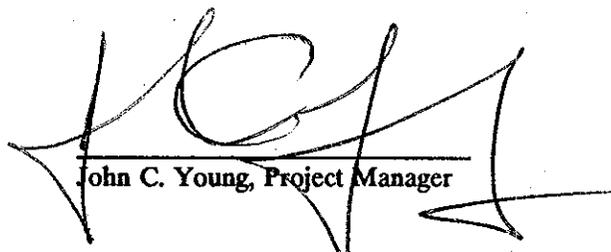
1	9/2/93	ARCO Station No. 6148, 5131 Shattuck Avenue, Oakland, California.
1	9/2/93	ARCO Station No. 771, 899 Rincon Avenue, Livermore, California.
1	9/2/93	ARCO Station No. 374, 6407 Telegraph Avenue, Oakland, California.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files

REMARKS:

Copies: 1 to RESNA project file no. 61026.02


John C. Young, Project Manager

cc: Mr. Michael Whelan, ARCO
Mr. Eddy So, RWQCB
Mr. Mark Thomson, ACDAO
Mr. Richard Hiatt, RWQCB

93 SEP 20 PM 12:21

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

September 2, 1993
0902SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during June, July and August 1993, and site activities anticipated for the month of September 1993.

June, July and August 1993 Activities

- Performed monthly groundwater monitoring.
- Performed Third Quarter 1993 groundwater sampling.
- Submitted Second Quarter 1993 groundwater monitoring report.
- Submitted, received and evaluated bids for the installation of an interim remediation system at the site.

Sent via "Certified Mail" P1897817401

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

EMERGENCY

YES NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES 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

SIGNED: *[Signature]*

DATE: 6/10/93

REPORT DATE

06/10/93

CASE #

N/A

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT

T. Briannon

PHONE

(310) 407-2609

SIGNATURE

T. Briannon

REPRESENTING

OWNER/OPERATOR

REGIONAL BOARD

COMPANY OR AGENCY NAME

ARCO Product Co.

LOCAL AGENCY OTHER

ADDRESS

P.O. Box 6038, Artesia, CA 90702-6038

RESPONSIBLE PARTY

NAME

ARCO Products Co.

CONTACT PERSON

Courtland Holman

PHONE

(310) 407-2610

ADDRESS

P.O. Box 6038, Artesia, CA 90702-6038

SITE LOCATION

FACILITY NAME (IF APPLICABLE)

374

OPERATOR

John K. Chao

PHONE

(510) 658-7508

ADDRESS

6407 Telegraph Ave., Oakland, Alameda 94609

CROSS STREET

Alcatraz

01-0114

IMPLEMENTING AGENCIES

LOCAL AGENCY

AGENCY NAME

Alameda Co Public Health

CONTACT PERSON

Tim Spates

PHONE

(510) 271-4320

SUBSTANCES INVOLVED

(1)

NAME

no gasoline has entered the soil - contained in secondary system

QUANTITY LOST (GALLONS)

UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED

06/09/93

HOW DISCOVERED

TANK TEST

INVENTORY CONTROL

SUBSURFACE MONITORING

NUISANCE CONDITIONS

TANK REMOVAL

OTHER Found gas in annular space

DATE DISCHARGE BEGAN

06/09/93

UNKNOWN

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)

REMOVE CONTENTS

CLOSE TANK & REMOVE

REPAIR PIPING

REPAIR TANK

CLOSE TANK & FILL IN PLACE

CHANGE PROCEDURE

REPLACE TANK

OTHER Disabled space probe

HAS DISCHARGE BEEN STOPPED?

YES NO

IF YES, DATE

06/09/93

SOURCE/CAUSE

SOURCE OF DISCHARGE

TANK LEAK

UNKNOWN

PIPING LEAK

OTHER

CAUSE(S)

OVERFILL

RUPTURE/FAILURE

SPILL

CORROSION

UNKNOWN

OTHER

CASE TYPE

CHECK ONE ONLY

UNDETERMINED

SOIL ONLY

GROUNDWATER

DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY

NO ACTION TAKEN

PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED

POLLUTION CHARACTERIZATION

LEAK BEING CONFIRMED

PRELIMINARY SITE ASSESSMENT UNDERWAY

POST CLEANUP MONITORING IN PROGRESS

REMEDIATION PLAN

CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY)

CLEANUP UNDERWAY

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)

CAP SITE (CD)

EXCAVATE & DISPOSE (ED)

REMOVE FREE PRODUCT (FP)

ENHANCED BIO DEGRADATION (IT)

CONTAINMENT BARRIER (CB)

EXCAVATE & TREAT (ET)

PUMP & TREAT GROUNDWATER (GT)

REPLACE SUPPLY (RS)

VACUUM EXTRACT (VE)

NO ACTION REQUIRED (NA)

TREATMENT AT HOOKUP (HU)

VENT SOIL (VS)

OTHER (OT) Disabled monitor due to

COMMENTS

product in annular space creating a constant alarm. Monitor to be reactivated after repair.

cc. Kyle Chrishe - ARCO

93 JUN 10 11:5:27

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

June 7, 1993
0525SHGO
62028.02

Ms. Susan L. 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 May 19, 1993.

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 May 19, 1993. This meeting was held for discussion of ARCO sites 374, 771, 2185, 6041, 6113, and 6148 located in Alameda County. In addition to yourself, attending the meeting were Ms. Eva Chu and Mr. Barney Chan of the ACHCSA, Mr. Michael Whelan of ARCO, Ms. Valli Voruganti, Mr. John Young, and Mr. Greg Barclay of RESNA.

Items discussed include the following: ongoing assessment and remediation at the above mentioned sites; offsite access problems; updates and changes in remediation schedules; and other issues concerning these sites. Specific topics discussed for each site are included in the following minutes to the meeting.

Attending the entire meeting were Ms. Susan Hugo of the ACHCSA, Mr. Michael Whelan of ARCO, and Ms. Valli Voruganti, Mr. John Young, and Mr. Greg Barclay of RESNA. Ms. Eva Chu was present for the discussion of ARCO Station 6041, and Mr. Barney Chan was present for the discussion of ARCO Station 2185. The meeting convened at approximately 2:15 p.m.

ARCO Station 6041, 7249 Village Parkway, Dublin, California.

The discussion started with Mr. Mike Whelan giving a brief overview of ARCO's 26 sites within Alameda County. Eleven sites are currently in remediation and it is expected that seven more sites will be operational by the end of this year. Mr. Whelan discussed the lack of success with groundwater pump and treat systems and the recent success ARCO has had with air sparging in remediating hydrocarbon impacted groundwater, including recent closure of a site in San Francisco. Mr. Whelan discussed ARCO's approach to remediating sites by going after the source; i.e., removal of single walled tanks and product lines, hydrocarbon-impacted vadose zone soils, capillary fringe and saturated zone soils.

Mr. Whelan began discussion on ARCO Station 6041 by stating that Mr. Scott Seery of ACHCSA, had formerly managed this site. Currently, the site is managed by Ms. Chu, who oversees Dublin and Livermore areas. Ms. Chu confirmed this change in regulatory oversight. Mr. Whelan explained that at the previous meeting held for this site on September 30, 1992, Mr. Joel Coffman of RESNA and Mr. Seery had discussed possibly conducting a pump test. Ms. Valli Voruganti interjected that a work plan was submitted to ACHCSA on September 29, 1992 which proposed additional onsite assessment work, an aquifer pumping test and a vapor extraction test (VET) at the site. Ms. Voruganti continued that onsite vapor extraction and monitoring wells were installed, and a VET was conducted at the site during the last quarter 1992. Based on results of the VET, vapor extraction was evaluated to be a feasible soil remedial alternative (A 35-foot effective radius of influence for each vapor extraction well was observed; RESNA, January 29, 1993).

Mr. Whelan reiterated the lack of success that ARCO has experienced with pump and treat systems in effectively remediating groundwater on several ARCO sites, as opposed to the recent success of air sparging. Mr. Whelan then stated ARCO's desire to proceed with an air sparge test in lieu of a pumping test at this site. Ms. Voruganti continued that since sparging occurs at relatively low air pressures (5 to 15 psi) and the resulting sparge radii of influences are relatively small, it is essential that the location of the hydrocarbon source be identified prior to installation of a sparge well and subsequent performance of a sparge test.

Mr. John Young and Mr. Whelan stated ARCO's intention of evaluating a potential onsite source, and if appropriate, defining the onsite extent. It was proposed that this be accomplished by the use of a hydraulic continuous core probe placed at several points across the site. The drill rig will drive a two-inch diameter probe at several points (along the fill ends of the existing tanks and along the pump islands) across the site. Ms. Chu asked if the

hydraulic probe drill rig is similar to a "Geoprobe" type drill rig. Mr. Young stated that the rig RESNA will be using is similar in method, however, the rig utilizes a larger diameter probe.

With ARCO's intent stated, Mr. Whelan added that ARCO will install air sparging wells as necessary in close proximity to the onsite source(s), as they are identified. Ms. Valli Voruganti then explained the field procedures followed in conducting an air sparge test on the sparge well and a combination VET and air sparge test to evaluate the sparge radius of influence, the feasibility of sparging, and to ensure that vapor extraction will capture the sparge off-gas. Ms. Chu asked if we would vent the sparge off-gas to the atmosphere during the test. Ms. Voruganti responded that an internal combustion engine (IC) engine will be utilized for abatement to comply with Bay Area Air Quality Management District (BAAQMD) regulations.

Ms. Chu asked about the offsite hydrocarbon groundwater plume, if any, and how ARCO was going to address it at the site. Mr. Young replied that monitoring wells MW-4 through MW-6 located downgradient, crossgradient and upgradient, have reported nondetectable (ND) levels of gasoline hydrocarbons. Well MW-2 has also been ND except for the most recent sampling event (reported levels of total petroleum hydrocarbons-as-gasoline (TPHg) of 740 parts per billion [ppb]).

A discussion then developed on the groundwater gradient and flow direction across the site and across the other stations located on opposite corners. Ms. Voruganti presented a groundwater gradient map which depicted a easterly/southeasterly flow direction across the ARCO and Unocal sites. Ms. Chu said she had calculated a more southerly flow direction across the ARCO site, based on groundwater elevation data from wells located closely together near the tank complex. There was discussion on calculating flow direction. Mr. Whelan stated that by using all the wells onsite, including the three wells located near the perimeter of the site (MW-4 through MW-6), a more accurate interpretation of groundwater flow direction could be generated, as compared to a gradient interpretation based on select groundwater elevation data. ARCO used these perimeter wells to arrive at an easterly/southeasterly flow direction. As requested by Ms. Chu, ARCO will continue to collect monthly water levels to calculate groundwater flow direction and gradient.

In a discussion of the area around the ARCO station, historical data on dissolved TPHg and benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations in groundwater was discussed for each site. This information was provided by Ms. Chu. Ms. Voruganti mentioned that Unocal's monitoring well MW-1, located upgradient of ARCO's well MW-1, originally displayed much higher concentrations of TPHg and BTEX, however, these

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

concentrations began to decrease during the same time period as concentrations started to increase at the ARCO site. Ms. Chu asked if ARCO intends to put an onsite monitoring well upgradient of MW-1 to identify if hydrocarbon-impacted groundwater from the Unocal station has travelled offsite. Mr. Whelan responded with the understanding that usual regulatory approach was to require the upgradient principal responsible party (PRP) to determine the extent to which offsite impact has occurred. Mr. Barclay stated that since the onsite source(s) have not been verified on the ARCO site and a source has been identified upgradient of the ARCO site, another upgradient well on the ARCO site would likely not be the best strategy in defining ARCO's potential onsite source. Ms. Hugo asked if Unocal could place a well on the ARCO site to further delineate the extent of the Unocal plume. Mr. Whelan said that Unocal would probably not agree to this. Ms. Chu discussed further downgradient assessment must be implemented by Unocal since they are currently not controlling potential migration with a groundwater remediation system. Both Ms. Chu and Ms. Hugo discussed the possibility of Unocal installing a well in Village Parkway.

Ms. Chu asked if ARCO would place a well downgradient of the ARCO site. Both Mr. Whelan and Mr. Young discussed that ARCO currently has downgradient wells (MW-2, MW-4) at their property line and these wells have been nondetectable TPHg and BTEX with the exception of MW-2 during the last sampling event. In addition, Mr. Whelan brought up the fact that the former Mobil (now British petroleum [BP]) station does not have a well along the northern portion of their site, with the exception of AW-6 located in the northeastern portion of the site. Dissolved TPHg and BTEX concentrations in AW-6 have been much higher than the onsite wells on the ARCO station. Ms. Chu discussed fluctuating groundwater directions reported at the former Mobil site and the possibility of 2 or more water-bearing zones at this site. Ms. Voruganti and Mr. Barclay stated that the well construction and groundwater gradient should be reviewed if two or more water-bearing zones exist at that site. In addition, because groundwater is relatively shallow in this area, the possibility of underground utility trenches affecting groundwater flow was discussed. Ms. Chu stated that she will research blueprints with the City to determine where the nearest utilities are in relation to this area. Ms. Chu also discussed the need for addition hydrogeologic definition at the former Mobil site. Because of the apparent lack of data on the northern portion of the former Mobil site, and existing downgradient data reported on the ARCO site, further downgradient assessment by ARCO offsite is inappropriate at this time. Mr. Young reiterated that ARCO would like to address any potential onsite source before placing wells offsite.

Ms. Hugo and Ms. Chu further discussed the status of assessment and remedial work at the other sites located on the opposite corners (former Mobil [BP], Shell, Dutch Pride, and Unocal). All underground storage tanks (USTs) at these sites were removed and replaced.

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

Currently Shell Oil is not an active station. At one time, an aquifer pump and recovery test was performed at the Shell site and was determined to be successful, however, no further action was taken. Quarterly monitoring is being performed at the Unocal and former Mobil sites, however, no additional assessment work is currently scheduled. Furthermore, Dutch Pride and the former Shell station are not performing quarterly monitoring. Ms. Chu said she is in the process of requiring Dutch Pride (a market located next to the former Shell station) to address remediation of impacted soil and groundwater due to the former UST located near MW-13. Ms. Hugo and Ms. Chu concurred that ACHCSA could require Unocal to look into migration control at their site. Ms. Hugo said she would send RESNA the latest groundwater quarterly monitoring results from the Unocal and former Mobil Oil sites.

Ms. Voruganti requested a delay of two months (from April 1994 to June 1994) in startup of an interim soil and groundwater remediation system at the site. This delay was requested as a result of sparge testing and additional onsite assessment work to be performed instead of the proposed aquifer pumping test. Ms. Chu and Ms. Hugo gave a verbal approval to the delay. At the request of Ms. Chu, a letter detailing revised schedules for completion of the intermediate phases of work leading to system startup will be submitted to ACHCSA, as soon as possible.

In summary, Mr. Whelan and Mr. Barclay stated that ARCO will identify potential onsite source(s) using a hydraulic continuous core probe and install and test air sparge wells in conjunction with vapor extraction to evaluate the feasibility of vapor extraction and sparging as interim soil and groundwater remedial alternatives. If additional offsite assessment downgradient of the ARCO site is necessary, additional information from work performed at the surrounding sites will be evaluated to determine PRPs. Following our discussion on ARCO Station 6041, in Dublin, Ms. Chu left the meeting.

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

Ms. Voruganti began by updating Ms. Hugo on the status of remediation work at the subject site. The landscaping plans for the site were approved in early May 1993, and are due for submittal to bid within the next few weeks. As agreed by ACHCSA, the contract shall be awarded and construction is scheduled to begin in early August 1993. System startup is scheduled for September 1993. A delay of approximately nine months in system startup was incurred as a result of the district being rezoned and the City of Oakland requiring additional permitting and landscaping at the site. Ms. Hugo mentioned that she had spoken to Mr. Bill Quesada, who indicated that the City of Oakland will be willing to work with RESNA, to expedite permitting related to installation of remediation systems (for example by submittal of drawings with the remedial action plan). Ms. Voruganti and Mr. Whelan stressed that it has been ARCO's approach to have their consultants communicate with local agencies regarding permitting issues that may arise prior to final design. This was the case for this site, however due to redistricting and rezoning, a new set of permits were needed at the final stage, and hence additional delays were incurred. ARCO is continuing with quarterly monitoring.

ARCO Station 771, 899 Rincon Ave., Livermore, California.

Discussion about this site began by Mr. Whelan asking Ms. Hugo if she has received any information regarding site access for well installation from the owner of the property immediately adjacent to the ARCO site. Ms. Hugo said she had not received permission from the offsite owner to allow ARCO to install wells. She said she would draft and send a letter to the offsite property owner regarding this issue. As requested, RESNA will provide information on the offsite property owner (name and address) to Ms. Hugo as soon as possible. Mr. Whelan noted that three written requests for offsite access had already been made and to date access has not been gained. Mr. Whelan also informed Ms. Hugo that the property owner had previously spoken with Mr. Coffman of RESNA and Ms. Hugo concerning this matter. Ms. Hugo said if she does not have any success with the offsite owner she will refer the matter to the RWQCB. Mr. Whelan and Ms. Voruganti explained that offsite wells installed downgradient and cross gradient of the site have reported nondetectable concentrations of TPHg and BTEX in groundwater since installation in January 1993.

Ms. Voruganti stated that the vapor extraction system (VES) for interim soil remediation was installed on schedule in March 1993. Startup of the interim VES has not been initiated due to a 20-foot increase in groundwater elevation in the on- and offsite vapor extraction

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

and monitoring wells. The available screen interval for venting has been submerged as a result of the rise in groundwater elevations. Based on monthly groundwater monitoring, depth-to-water (DTW) in onsite wells has been decreasing at a rate of approximately 2 feet per month since March 1993. **If the current decrease in groundwater levels continue, Ms. Voruganti stated that startup of the VES can occur in early August 1993.**

ARCO Station 6113, 785 E. Stanley Blvd., Livermore, California.

Ms. Voruganti began by discussing the 40-foot increase in groundwater elevations observed in the onsite monitoring wells at the site since January 1993. Three relatively distinct, unsaturated hydrologic zones (shallow, middle, and deep) were previously identified at the site. These zones occur at approximate depths of 10 to 30 feet below grade surface (bgs), 30 to 50 feet bgs, and 50 feet bgs and below. With the exception of the shallow zone, all other zones have been flooded since groundwater levels have risen 40 feet (from 65 feet bgs to 25 feet bgs).

Ms. Voruganti showed Ms. Hugo the D-size Plans of the subgrade remediation-piping layout submitted earlier to ACHCSA (in December 1992) detailing the proposed shallow, middle and deep zone vapor extraction wells that will be used to remediate subsurface hydrocarbon-impacted soils. These wells were proposed based on the results of the VET performed at the site (a 40-, 30- and 175-foot effective radius of influence (R.O.I) was observed in the shallow, middle and deep zones, respectively). As a result of the rise in water levels, Mr. Whelan stated that as detailed in the December 1992 Work Plan, ARCO will proceed with installation of only the proposed shallow zone vadose wells. Based on the decrease in groundwater levels, additional vapor extraction wells will be installed at a later date in the middle and deeper zones. **Ms. Voruganti stated that a VES for interim remediation of hydrocarbon-impacted soils in the shallow zone is scheduled to be installed and operational by January 1994.**

Mr. Whelan explained that ARCO would like to proceed with air sparging at this site in lieu of an aquifer pump and recovery test that was proposed in a work plan submitted in December 1992. **A work plan for installation of the sparge wells and a remedial action plan (RAP) for interim soil and groundwater remediation will be submitted to ACHCSA by July 15, 1993.** Ms. Voruganti added that the date (s) for sparge well (s) and interim groundwater remediation system installation is dependent on observed decreases, if any, in groundwater elevations at the subject site. However, based on high VOC concentrations during the VET, the proposed Thermal/Cat-Ox treatment system will be fully utilized at startup by extracting from the proposed shallow vapor wells.

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

Ms. Hugo asked when a report would be submitted for the two offsite wells and one onsite well drilled earlier this year. Ms. Voruganti stated that as a result of the heavy rains in last quarter 1992 and first quarter 1993, and delays in procurement of product pumps, a three month delay was incurred in completion of the removal and replacement of product lines and on- and offsite well installation at the site. **Hence, the report detailing the offsite/onsite monitoring wells and the shallow vadose extraction wells installation will be submitted to the ACHCSA by August 15, 1993.**

Ms. Voruganti proceeded to show Ms. Hugo several graphs displaying the fluctuations in groundwater in the Livermore Valley.

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

Mr. Young began discussing this site by reviewing the recent results of a subsurface investigation conducted in April 1993. Eleven test borings were drilled across the site using a hydraulic-probe drill rig to evaluate potential onsite source(s). One test boring was converted into a air sparge well in the vicinity of the operating service island. Ms. Voruganti and Mr. Young discussed the analytical results of the soils samples collected from these borings and results from the first quarterly groundwater monitoring event. These results indicate that vadose zone soils in the vicinity of the operating service islands have been impacted by low concentrations of gasoline hydrocarbons (ND to 20 ppm TPHg at depths of 9.5 to 12 feet bgs). Soil sample results also indicated that capillary fringe soils in the vicinity of the north service islands, the fill ends of the tank cluster, and downgradient of the north service islands in the vicinity of the former waste-oil tank have been impacted by gasoline hydrocarbons (ND to 740 ppm TPHg at depths of 14 to 18.5 feet below grade).

Mr. Young proposed that a vapor extraction, an air sparge and a combination vapor extraction and sparge test be conducted at this site in lieu of an aquifer pump and recovery test. The VET will address the feasibility of remediation of the vadose zone soils, while the air sparge and combination sparge and vent test will address the feasibility of remediation of impacted groundwater by sparging the primary source for hydrocarbons (the capillary-fringe soils) in conjunction with vapor extraction at the site. Ms. Hugo asked where the locations of the vapor extraction and sparge well(s) would be. Ms. Voruganti stated that to avoid installation of additional observation wells, a sparge and two vapor extraction wells will be installed in the southeastern portion of the site, in the vicinity of existing monitoring wells MW-1 through MW-3. The existing monitoring wells will serve as observation wells for the VET, sparge and combination sparge and vent tests. The final location of these wells, and the field procedures that will be followed during the tests will be detailed in the

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

June 7, 1993
62028.02

forthcoming work plan. Mr. Young stated that a report of findings for the April 1993 test borings as well as a work plan for the proposed vapor extraction and sparge well (s) installation, the VET and sparge tests will be submitted to ACHCSA in late June 1993, approximately six weeks ahead of schedule. An earlier deadline for the report and work plan had been set for August 1, 1993.

Based on results of the VET, sparge and combination sparge and vent tests, an interim soil and groundwater remediation system will be designed. Ms. Voruganti requested a delay of 60 days in the startup of the systems, from April 1994 to June 1994. Ms. Hugo gave verbal approval for the requested 60 day delay in systems startup.

Following final discussion on ARCO Station 6148, Mr. Barney Chan joined the meeting to discuss site developments at ARCO Station 2185 in Oakland.

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

Discussion about this site began by Mr. Young and Ms. Voruganti reviewing previous assessment work conducted to date on the site. Results of previous assessments indicate that the primary source of hydrocarbons at the site occur in the recently submerged capillary fringe soils (now saturated zone soils) in the vicinity of the USTs and service islands. The capillary fringe soils are now submerged due to the recent heavy rains and resultant rise in groundwater elevation. A VET conducted at the site in June 1991 indicated that vapor extraction is not a feasible soil remedial alternative due to the less permeable vadose zone soils underlying the site.

Ms. Voruganti explained the results of an aquifer pumping test that was conducted in late February - early March 1993. Monitoring well MW-3 was used as the pumping well. Drawdown within the pumping well was approximately 3.5 feet at a pumping rate of 6.5 gallons per minute. Drawdown in observation wells varied from 0.5 to 0.1 feet, based on distance from the pumping well.

Mr. Young discussed the installation of offsite monitoring well (MW-7) downgradient/crossgradient of the site. The well was installed in the sidewalk within CALTRANS right-of-way. Mr. Whelan discussed the two month delay associated with CALTRANS approval of the offsite monitoring well. Preliminary results of water samples collected from the offsite monitoring well indicated a benzene concentration of 0.83 parts per billion (ppb), below the maximum contaminant level (MCL) limit in drinking water.

Mr. Whelan stated that the remediation schedule deadlines established in the September 30, 1992 meeting called for submittal of a RAP for interim soil and groundwater remediation to the ACHCSA by June 1, 1993. However, the lack of sufficient drawdown seen in the observation wells during the pumping test would not allow for all of the hydrocarbon-impacted capillary fringe and saturated zone soils to be exposed, without installation of numerous groundwater recovery wells. Mr. Young stated that further groundwater modeling of the pumping test results could be used to determine if pumping is a technically and economically feasible method. Ms. Voruganti and Mr. Whelan stated that even if modeling indicates pumping is feasible with the installation of numerous recovery wells and drawdown can be sustained, it still may be very difficult to target cleanup of the source with sparging and vapor extraction. This is based on impacted clayey soils being saturated, thus making venting unfeasible unless the soils were given a chance to dry. Keeping a sustained drawdown that will allow for adequate drying of the soils is not feasible due to the high probability of additional rainfall or system shutdown as a result of malfunction of process equipment and instrumentation. The pumping test showed that the wells recovered almost instantaneously after pumping. Sparging the capillary fringe alone would not be feasible since the vadose zone soils are less permeable to vapor extraction and therefore, the sparge off-gas cannot be captured.

Based on the above discussions, RESNA and ARCO stressed that a delay in submittal of the RAP is necessary to formulate an effective approach to remediation. Mr. Chan asked if injection of hydrogen peroxide or some type of bioremediation has been addressed. Mr. Young said that a feasibility study of available soil and groundwater remedial alternatives could be performed to determine a viable method for remediation of impacted soils and groundwater. Mr. Whelan asked if alternative points of compliance can be used to determine viable remedial approaches for this site. Mr. Chan stated that this approach could be possible and may apply to this site, but more information would be necessary to evaluate this further.

Ms. Voruganti said she would draft a letter listing several remedial approaches that will be evaluated in a feasibility study for this site. Based on ARCO and ACHCSA approval, a detailed feasibility study will then be conducted on a few of the selected remedial approaches. Ms. Voruganti requested a six month delay to present a feasibility study, RAP or other alternatives. Ms. Hugo and Mr. Chan gave verbal approval of the delay, and said they would await RESNA's letter explaining remedial approaches to be evaluated in a feasibility study. Based on the previous June 1, 1993 RAP deadline, a six month delay would project an early December 1993 deadline for the feasibility study, given a 30-day review process by ACHCSA.

RESNA

Working to Restore Nature

June 7, 1993

62028.02

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

Upon conclusion of discussion for this site, the meeting adjourned at approximately 5:15 p.m.

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

Sincerely,

RESNA Industries Inc.



John C. Young
Project Manager

cc: Michael Whelan, ARCO Products Company
Chris Winsor, ARCO Products Company
John Meck, ARCO Legal Dept.
Eva Chu, ACHCSA
Barney Chan, ACHCSA
Valli Voruganti, RESNA
Greg Barclay, RESNA

93 APR 19 11:05

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

April 19, 1993
0415SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during March 1993, and site activities anticipated for the month of April 1993.

March 1993 Activities

- Performed monthly groundwater monitoring.
- Submitted, received and evaluated bids for landscaping at the site as required by the City of Oakland Zoning Division.
- Awarded contract to prepare landscaping plans. Due to City of Oakland Zoning Division requirements for landscaping, construction of interim remediation system will be delayed until August/September, 1993.
- Submitted revised plans and specifications in accordance with City of Oakland Zoning Division requirements and extended building permit application to September 1993.

Site Status Update
ARCO Station 374, Oakland, California

April 19, 1993
61026.02

Work Anticipated for April 1993

- Continue monthly groundwater monitoring.
- Initiate preparation and permitting of landscaping and irrigation plans as required by City of Oakland Zoning Division.
- Re-evaluate revised bid submitted by contractor.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Manager

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board

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

March 19, 1993
0318SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland,
California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during February 1993, and site activities anticipated for the month of March 1993.

February 1993 Activities

- Performed groundwater monitoring.
- Continued permitting of interim remediation system to meet new City of Oakland Zoning requirements. Significant delays will be encountered due to City's requirement to update the landscaping at the site before a permit to construct the remediation system will be issued.

Site Status Update
ARCO Station 374, Oakland, California

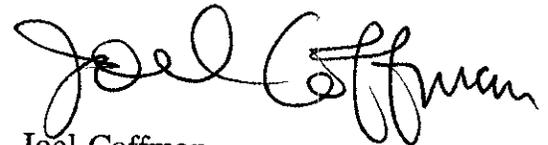
March 19, 1993
61026.02

Work Anticipated for March 1993

- Continue monthly groundwater monitoring.
- Continue preparation of bid package for landscaping plans as required by the City of Oakland Planning Commission.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Manager

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board

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

February 23, 1993
0217SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during January 1993, and site activities anticipated for the month of February 1993.

January 1993 Activities

- Performed groundwater monitoring.
- Attended City of Oakland Planning Department Meeting on January 13, 1993 to appeal City's requirements to add landscaping plans to site before City will issue building permit for construction of interim remediation system at the site. Appeal was denied by the City. Attending were Mr. Michael Whelan and Mr. Irving Crawl of ARCO, Ms. Susan Hugo of the Alameda County Health Care Services Agency, and Ms. Valli Voruganti and Joel Coffman of RESNA. The appeal was denied.
- Continued permitting of interim remediation system to meet new City of Oakland Zoning requirements. Significant delays will be encountered due to City's requirement to update the landscaping at the site before a permit to construct the remediation system will be issued.

Site Status Update
ARCO Station 374, Oakland, California

February 23, 1993
61026.02

Work Anticipated for February 1993

- Continue monthly groundwater monitoring.
- Initiate preparation of bid package for landscaping plans as required by the City of Oakland.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board

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

2078

January 29, 1993
0129SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during December 1992, and site activities anticipated for the month of January 1993.

December 1992 Activities

- Performed groundwater monitoring.
- Awarded contractor bid for construction of interim remediation system at the site. Attended pre-construction meeting with contractors.
- Continued permitting of interim remediation system to meet new City of Oakland Zoning requirements. The City of Oakland has now requested that ARCO update the landscaping at the site before a permit to construct the remediation system will be issued. This will cause substantial additional delay in getting the interim remediation system permitted and installed by the originally estimated March 1993 date.
- Sent letter to Ms. Susan Hugo requesting her assistance in getting City Planning Department to allow construction of system without landscaping requirements .

Site Status Update
ARCO Station 374, Oakland, California

January 29, 1993
61026.02

December 1992 Activities (Cont.)

- Submitted Final Third Quarter 1992 Quarterly Monitoring Report to ARCO and regulators.

Work Anticipated for January 1993

- Continue monthly groundwater monitoring.
- Continue permitting of interim remediation system to meet new City zoning requirements as discussed in September 30, 1992 meeting at Alameda County Health Care Services Agency.
- Attend City of Oakland meeting on January 13, 1993 to appeal additional landscaping criteria they have requested prior to them issuing any permits for construction of the interim remediation system at the site.
- Subsequent to the September 30, 1992 meeting at the Alameda County Health Care Services Agency in which the start-up date for the interim remediation system was estimated to be March, 1993, the new estimated start-up date will be significantly delayed by additional zoning requirements (landscaping) by the City of Oakland.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board

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

TRANSMITTAL

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

DATE: January 29, 1993
PROJECT NUMBER: 61026.02
SUBJECT: Site Status Updates

FROM: Joel Coffman
TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	1/29/93	61026.02	Site Status Updates

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files

Copies: 1 to RESNA project file no. 61026.02

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

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

January 27, 1993

Judy Mason
c/o Arco Products Company
17315 Studebaker Road,
Cerritos, CA 90701

**Subject: Five Year Underground Storage Tank Operating Permit
for Arco Facility #374, 6407 Telegraph Ave., Oakland,
CA 94609**

Dear Ms. Mason:

Enclosed you will find a five year permit to operate three (3) underground petroleum storage tanks at the above referenced facility. The tanks are double walled fiberglass tanks employing double walled, pressurize piping with automatic leak line detectors. The monitoring the tanks is tanks consists of "Interstitial Monitoring". To operate under a valid permit, you are required to comply with the conditions as described in Title 23 of the California Code of Regulations (CCR). Further, you must continue to address the investigation/remediation of the site in terms of the known discharge of petroleum products into the environment. This investigation is subject to oversight by the Alameda County Division of Hazardous Materials Local Oversight Program. Failure to comply with the above conditions will result in revocation of the subject permits.

Any changes in the reported monitoring/leak detection system should be reported to this office with an accompanying State Form "B", attached.

Please consult Title 23, CCR for any additional Requirements. To obtain a copy of the Regulations, you may contact the State Water Resources Control Board at (916) 657-0917. This office may be reached at (510) 271-4320.

Sincerely,

Brian P. Oliva
Sr. Hazardous Materials Specialist

cc: Chief Baker, Oakland Fire Department
Susan Hugo, Alameda County Local Oversight Program
file

93 JAN 19 11 24 48

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

January 18, 1993
1118rhie
61078.02

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

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

Dear Mr. Hiett:

On behalf of ARCO Products Company (ARCO), RESNA has prepared these estimated schedules for remediation of sites under your regulatory oversight. These include ARCO Stations 276, 374, 2107, 2185, 4494 and 6148 in Oakland, California, ARCO Station 2035 in Albany, California, ARCO Station 2152 in Castro Valley, California, and ARCO Station 6041 in Dublin, California.

The darkened lines on the schedules represent deadlines which were agreed upon during the September 30, 1992 meeting at the Alameda County Health Care Services Agency (ACHCSA). 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.

If you have any questions or comments, please contact us at (408) 264-7723 or Mr. Michael Whelan of ARCO at (415) 571-2449.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, ACHCSA
Mr. Michael Whelan, ARCO
Mr. John Meck, ARCO legal
Mr. Chris Winsor, ARCO
Mr. Mark Thomson, Alameda County D.A. (Cover Letter)

ACTIVITIES	1995											
	J	F	M	A	M	J	J	A	S	O	N	D
1) Onsite Subsurface Investigation												
1a) Aquifer Testing												
2) Offsite Groundwater Investigation												
3) Remedial Action Plan												
4) Preliminary and Detailed Engineering Design												
5) Soil and Groundwater Remediation Permitting												
6) Equipment Selection and Procurement (Inclu Bld Package Preparation and Selection)												
7) System Construction and Startup: Soil and Groundwater												
8) Soil Remediation System Operation and Maintenance (1 year)												
8a) Groundwater Remediation System: Operation and Maintenance (3 to 6 years)	to 1996-1997											
9) Performance Evaluation												
10) System Shut Down: Soil Remediation	System shut down predicted for 1996-1997											
11) System Shut Down: Groundwater Remediation (Begin One Year Verification Monitoring)	Estimated completion of verification monitoring: 1997-1998											
12) Site Closure: Soil and Groundwater (1 year)	Estimated completion of site closure: 1998-1999											
EXPLANATION:	consultant's experience, on receiving regulatory and sed on other related work being completed.											

- 1 and 1a) Onsite Subsurface Investigation:**
 - Initial Onsite Assessment Report completed prior to 1992.
 - Aquifer testing completed prior to 1992.
- 2) Offsite Groundwater Investigation:**
 - Initial offsite investigation completed in 1992.
 - A possible offsite secondary source of hydrocarbons identified.
 - Additional offsite investigation pending operational soil and groundwater remediation system.
- 3) Remedial Action Plan:**
 - RAP completed and approved.
- 4) Preliminary and Detailed Engineering Design:**
 - Design completed.
- 5) Permitting (Soil and Groundwater):**
 - Completion of permitting delayed by City of Oakland.
 - Permitting originally scheduled to be completed by August 1993.
 - Discussed in meeting at ACHCSA on September 30, 1993.
 - Landscaping requirements will delay permitting until May 1993.
- 6) Equipment Selection and Procurement:**
 - Completed.
 - Additional City of Oakland permitting requirements for construction bids, which will result in additional delay.

- 11) Remedial System:**
 - Completed in approximately 1 year after startup.
 - System expected to be shut down by October to December 1997.
- 12) Groundwater Remediation System:**
 - Completed approximately 3 to 6 years after startup.
 - Verification groundwater monitoring will be required before system initiated.
 - Remediation system expected to be shut down sometime in 1998.
- Soil closure involve only drilling of confirmation borings and closure at time of system shutoff.
- Groundwater closure involve only groundwater monitoring and closure at system shutoff.
- Obtain agency concurrence within 1 year following completion of monitoring.
- Assessment will be necessary.



SCHEDULE

PLATE

A

PROJECT 61078.02

93 JAN 14 11 01 AM

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

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report Quarterly Grounwater Monitoring, Third Quarter 1992 60025.07	12/18/92	RESNA
Report on Offsite Subsurface Environmental Investigation at ARCO Station 374, 6407 Telegraph Avenue, Oakland, CA 60025.02	9/22/92	RESNA
Plans and Construction Specifications and Contract Documents for Installation of Interim Soil and Groundwater Remediation Systems 60025.08	9/11/92	RESNA
Letter Report Quarterly Groundwater Monitoring Second Quarter 1992 60025.07	8/28/92	RESNA
Letter Report Quarterly Groundwater Monitoring First Quarter 1992 60025.07	5/5/92	RESNA
BAAQMD Permit Application for Authority to Construct/Permit to Operate an Interim VES. 60025.08	4/1/92	RESNA
Letter Report Quarterly Groundwater Monitoring, Fourth Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	3/9/92	RESNA
Addendum Two to Work Plan for Interim Soil and Groundwater Remediation 60025.08	3/6/92	RESNA
Letter Report Quarterly Groundwater Monitoring, Third Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	11/21/91	RESNA
Letter Report Quarterly Groundwater Monitoring, Second Quarter 1991 ARCO Station 374, Oakland, CA 60025.02	9/4/91	RESNA
Report of Pumping and Recovery Test Results 60025.04	7/31/91	RESNA/Applied GeoSystems
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation. AGS 60025.03	5/15/91	RESNA/Applied GeoSystems
Letter Report on Quarterly Groundwater Monitoring, First Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-2	4/16/91	RESNA/Applied GeoSystems
Report on Limited Subsurface Environmental Investigation at ARCO Station 374, Oakland, CA. AGS 18039.03	3/27/91	Applied GeoSystems
Letter Report on Quarterly Groundwater Monitoring, Fourth Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-1	3/26/91	Applied GeoSystems

REPORTDATECONSULTANT

Letter Report on Quarterly Groundwater
Monitoring, Third Quarter 1990
at ARCO 374, Oakland, CA
AGS 60025-1

8/30/90

Applied
GeoSystems

Letter Report on Purging and Sampling
Tank Pit Monitoring Well at
ARCO Station No. 374, Oakland, CA
AGS 18039-4

1/5/89

Applied
GeoSystems

Work Plan, Supplemental Subsurface
Environmental Investigation at
ARCO Station 0374, Oakland, CA
AGS 018039-3W

9/11/88

Applied
GeoSystems

Report Environmental Investigation
Related to Underground Tank Removal
018039-2

8/1/88

Applied
Systems

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

6/15/88

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcatraz Property, Oakland, CA

5/27/86

AquaScience
Engineers



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

TRANSMITTAL SHEET

DOCUMENT SENT TO: S. Hugo.
ACH CSA

Facsimile Number: (510) 5694757

DOCUMENT SENT FROM: VALIS VORUGANTS
RESNA San Jose Office
3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2435

Date Sent: 1/12/93. Time Sent: 10:45 am

DELIVER: Immediately Same Day

CONFIRMATION OF RECEIPT REQUESTED: YES NO
(Recipient to call sender upon receipt)

DOCUMENT DESCRIPTION: Copy of Staff Report
for Appeal Hearing on 1-13-93
at 1:30 p.m.

NUMBER OF PAGES (including transmittal sheet): 17

TO: City Planning Commission
 FROM: Staff
 APPLICANT: RESNA INDUSTRIES, INC.
 APPELLANT: RESNA INDUSTRIES, INC.

DATE: January 13, 1993
 CASE FILE NO.: D92-268

RECEIVED
 JAN 11 1993

SUBJECT: Appeal of Conditions of Approval associated with an approved Design Review application to install an interim Soil and Groundwater Remediation Facility and relocate an existing storage trailer located at 6407 Telegraph Avenue (ARCO gas station) in the C-28 Commercial Shopping District Zone. (CEQA STATUS: Exempt; Section 15311, Cal. Adm. Code)

DISCUSSION: The applicant is proposing to install a remediation facility to remove subsurface toxins from soil and groundwater below an existing ARCO gas station/mini mart, located on a 13,110 square foot site at the northwest corner of Telegraph and Alcatraz Avenues. The proposed remediation action is required by the Alameda County Health Care Services Agency (ACHCSA) and the California Regional Water Quality Control Board (CRWQCB).

The site currently contains a one-story station building (2,206 square feet) with two covered service islands. The proposal will involve: (1) relocation of an existing storage trailer (20' x 9') from the rear of the station building to its north side and (2) installation of remediation facilities within a fenced compound (19' x 11') and an internal combustion engine and fuel tanks within an enclosure (7' x 18') at the rear of the station building (see Attachment A). The remediation system is required to be onsite at least three years, or until the governing regulatory agencies (ACHCSA and CRWQCB) grant approval for closure of the site.

Design Review is required in the C-28 Zone to construct the new facilities as proposed. Staff has approved the Design Review application (D92-268) with conditions (see Attachment B), and the applicant has appealed 3 of the 7 conditions associated with the approval.

APPEAL ISSUES: The three conditions of approval that were appealed are: (#2b) the requirement that quick-growing buffer trees be planted along the north and west property lines; (#2c) that an existing vinyl slatted fence located along the west lot line be replaced with a redwood slatted chain link fence to match the fence along the north lot line; and (#7) that a landscape and irrigation plan be prepared to address the concern for site screening prior to filing of a building permit.

The site is located within an area that was recently rezoned from C-30, District Thoroughfare Commercial Zone, to C-28, Commercial Shopping District Zone. The C-28 zone is intended to "enhance major boulevards of medium-scale retail establishments... and to encourage mixed-use residential and non-residential developments, (which are) typically appropriate along major thoroughfares near residential communities" (Ord. 11445 C.M.S., 5/5/92). Unlike the C-30 zone, Design Review is required in the C-28 zone for all new construction. This requirement is necessary to ensure aesthetic compatibility between residential and non-residential uses and facilities that occur in this zone.

The commercial environment around the site includes numerous small

January 13, 1993

The commercial environment around the site includes numerous small commercial businesses located along Telegraph Avenue. The subject site, however, is adjacent to two residential apartment buildings, one of which is a 12-unit apartment building located on a flag lot to the rear of the site on Alcatraz Avenue and the other is a multi-unit apartment building located along the north property line (see Attachment C). The second floor apartments in the 12-unit building look directly onto the rear of the subject site where the remediation facility will be placed. Similarly, the relocated storage trailer will be visible from the apartments located along the north property line (see Attachment D).

The conditions of approval prescribed by staff are intended to soften the visual impact of the facilities on adjacent residences, and to create a more effective transition between the unscreened gas station site and the abutting residential properties. To this end, condition #2a requires an eight foot high wood lattice fence planted with ivy plants to be placed around the remediation facility instead of the proposed 6 foot high fence. Condition #2b requires additional screening of the commercial site from abutting properties, to be outlined in a landscape and irrigation plan submitted for approval by the Planning Director (condition #7).

Prior to filing the appeal, the applicant initiated discussion with staff to eliminate those conditions that were not easily satisfied and would delay the remediation program schedule. Staff agreed to eliminate condition #2c since the existing fence along the rear lot line is owned by the adjacent property owner. Staff also suggested that low maintenance trees be used to satisfy condition #2b, to avoid the cost of irrigation, and further agreed to modify condition #7 to require submittal of the landscape and irrigation plan prior to 'issuance' of a building permit, as opposed to 'filing' of a permit. Despite these compromises, the appeal to waive all site improvement conditions was filed.

Staff believes that those conditions that require screening of the remediation facility (#2a) and minimal buffer landscaping along the property lines (#2b) are reasonable and will not unduly burden ARCO's effort to improve the quality of the site. Moreover, these measures will strongly serve the intent of the C-28 zone to create a integrated and harmonious mixed-use neighborhood.

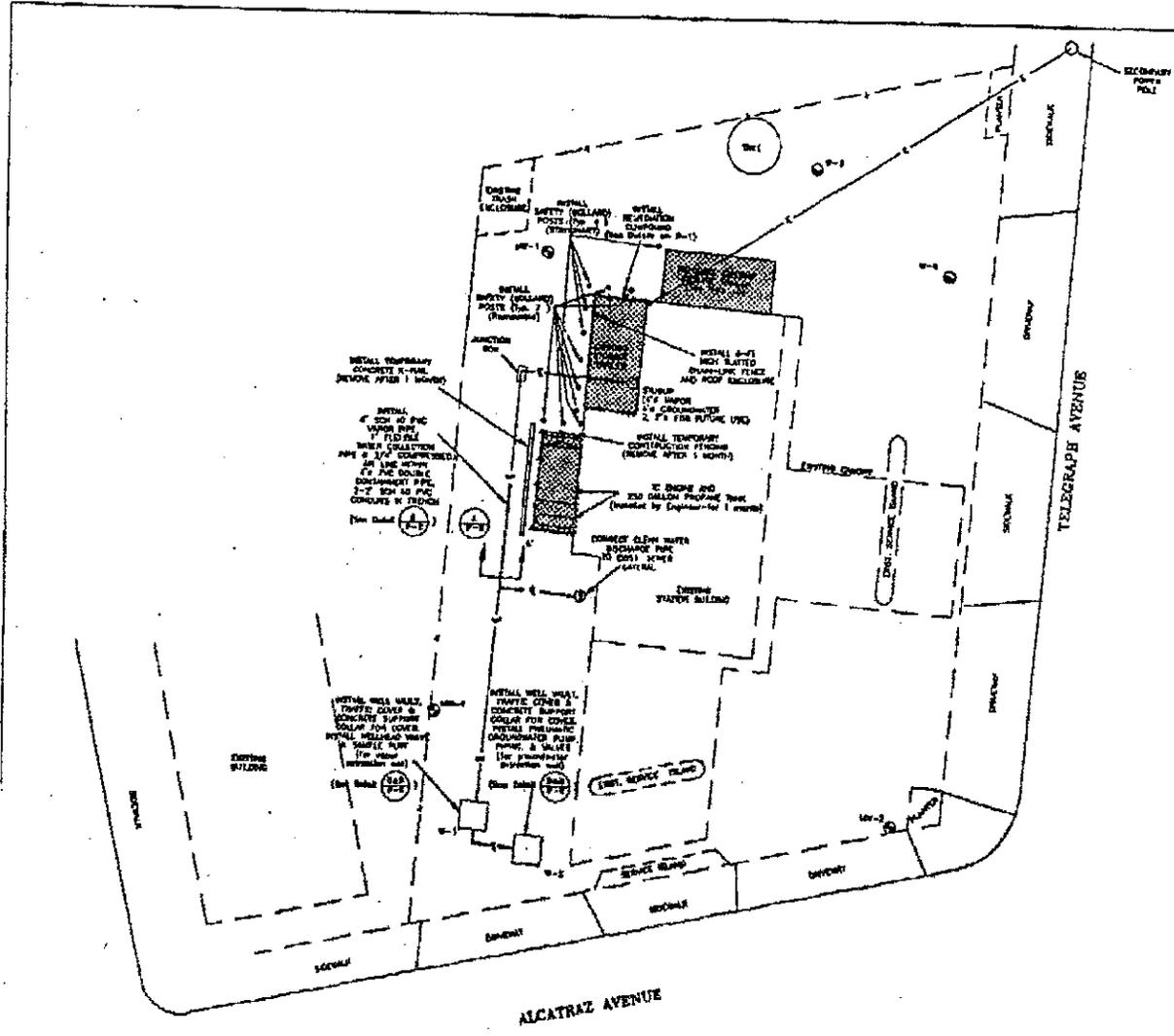
RECOMMENDATION: Affirm the approval of the Director of City Planning with the following changes:

1. Remove condition #2c;
2. Modify condition #7 to require filing of landscape and irrigation plans prior to 'issuance' of a building permit, as opposed to 'filing' of a building permit.

Attachments: A. Project Plans
 B. Decision Letter (12/2/92)
 C. Site Map

F-Z271 1D92268.BOX

ATTACHMENT A



SCHEME A

RECEIVED

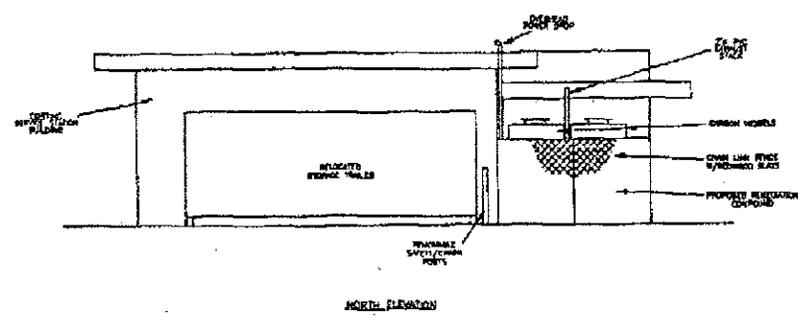
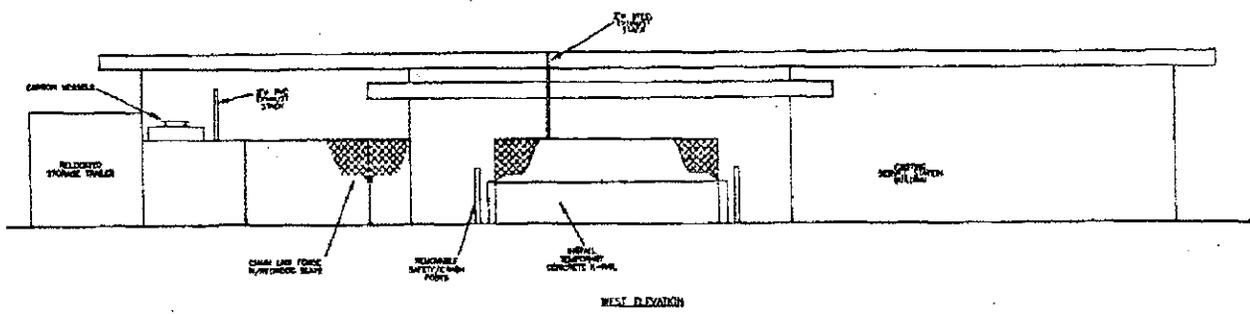
DEC 05 1982

PLANNING COMMISSION
DEVELOPMENT CONTROL DIVISION

NO.	DATE	REVISION	BY	CHK	APP
RESNA Industries, Inc.					
SCALE: NOT TO SCALE			PROJECT NO: 60025.08		
DRAWN BY: [Name]			JOB NUMBER: 60025.08		
ARCO Station 374					
SITE PLAN					Sheet No. C-1A

Source: Surveyed by Ben Archer, O&E Engineer, Inc.

SCHEME A



No.	Scale	Revision	Des.	Chk.	App.
RESNA Industries, Inc.					
NOT TO SCALE			Designed by		
Date			Checked by		
File No. 374-0000			Job Number 60025.08		
ARCS Station 374					
Title ELEVATION VIEWS					Sheet No. P-4A

ATTACHMENT F
CITY OF OAKLAND

CITY HALL • ONE CITY HALL PLAZA • OAKLAND, CALIFORNIA 94612
Office of Planning and Building
~~Planning Department~~ TTY 839-6451

December 2, 1992

Valli Voruganti Mylavarabhatla
Resha Industries Inc.
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

RE: CASE FILE NO.: D92-268; 6407 Telegraph Avenue

Dear Mr. Mylavarabhatla:

Your application for Design Review to construct a temporary equipment enclosure for a hydrocarbon impacted Soil and Ground Water Remediation System and to relocate an existing storage trailer at the ARCO station located at 6407 Telegraph Avenue in the C-28 Commercial Shopping District Zone has been approved. The findings required to grant your request for Design Review, found at Section 9304(b) of the Oakland Zoning Regulations are as follows (citations relate to subsections of Section 9304(b)):

1. That the proposal will help achieve or maintain a group of facilities which are well related one to another and which, taken together, result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area. Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 7002.
2. That the proposed design will be of a quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area.
3. That the proposed design conforms in all significant respects with any applicable district plan or development control map which has been adopted by the City Council.

In order to receive approval, the proposal is required to satisfy all of the above criteria. Your proposal satisfies the criteria as indicated by the following reasons:

F. J. [unclear]

-2-

- (1) With respect to finding (1), the proposed equipment enclosure, an eight foot high lattice wood fence, will relate well with its surrounding residential neighborhood if conditions of approval are incorporated. Additional trees planted along the north and west property line will provide some buffer screening and help maintain the residential character of the immediate neighborhood.

The proposed enclosure, as depicted on scheme "A" (see plan drawings, No. C-1A), would be entirely screened from Telegraph Avenue and partially screened from Alcatraz Avenue by the existing gas station structure, thereby minimizing its visual impact. Replacement of the vinyl slatted fence along the west property line with 6' redwood slatted chain link fence will match the existing fence along the north property line, and also improve the visual character of the site. With appropriate conditions of approval, the facility will operate within an acceptable exterior noise level.

- (2) With respect to finding (2), the remediation equipment system is required by the Alameda County Health Care Services Agency (ACHSCA) and the California Regional Water Quality Control Board (CRWQCB) to remediate subsurface hydrocarbon impacted soil and ground water. The proposal is designed to improve and protect the value of private and public investments in the area.
- (3) With respect to finding (3), the proposed facility design conforms to the Oakland Comprehensive Plan and is consistent with all applicable City plans and policies.

Therefore, the proposal has been approved subject to the following conditions:

1. That the project shall be constructed according to Scheme "A" depicted on page no. C-1A on the plans submitted on October 3, 1992 and as modified by the conditions below.
2. That revised plans incorporating the following changes be submitted for approval by the Director of City Planning prior to issuance of building permit:
 - a) That an eight foot high wood lattice fence, planted with creeping ivy-type plants, be constructed instead of the proposed 6 foot redwood slatted chain link fence around the remediation compound and all around the storage trailer.

- b) That quick-growing buffer trees be planted along the north and west property lines as illustrated on the enclosed schematic drawing.
 - c) That the vinyl slatted fence located along the west lot line be replaced with a 6 foot high redwood slatted chain link fence to match the existing fence along the north property line.
 - d) That a maximum exterior noise level of 60 decibels at the property line be maintained at all times.
3. That no other signs shall be installed without the approval of the Director of City Planning.
 4. That street trees shall be provided by the applicant to the satisfaction of the Director of Parks and Recreation and installed prior to the finalization of the building permit.
 5. That no trees shall be removed without the approval of the Director of Parks and Recreation.
 6. That no grading shall occur without a valid grading permit issued by the Office of Public Works; and that all graded slopes be planted to prevent erosion.
 7. That a landscape and irrigation plan, prepared by a licensed landscape architect or other qualified person shall be submitted for approval prior to the filing of a building permit; that all landscaping shall be installed prior to the finalization of the building permit; and that all landscaping shall be permanently maintained.
 8. That a copy of the approved Conditions of Approval be recorded with the Alameda County Recorder using the attached form or a form approved by the Director of City Planning; proof of such recordation shall be provided to the Director of City Planning prior to the issuance of a building permit.
 9. That this approval shall terminate in one (1) year unless actual construction under valid permits commences; and that this may be extended upon application filed at any time prior to the expiration date.

This decision becomes effective in ten (10) days from the date of this letter unless appealed to the City Planning Commission. An appeal is made by completing an application and paying the required fee.

B. Quesada

If you have any questions, please contact me at (510) 238-6345.

Sincerely,

ALVIN D. JAMES
Director of City Planning

Bill Quesada

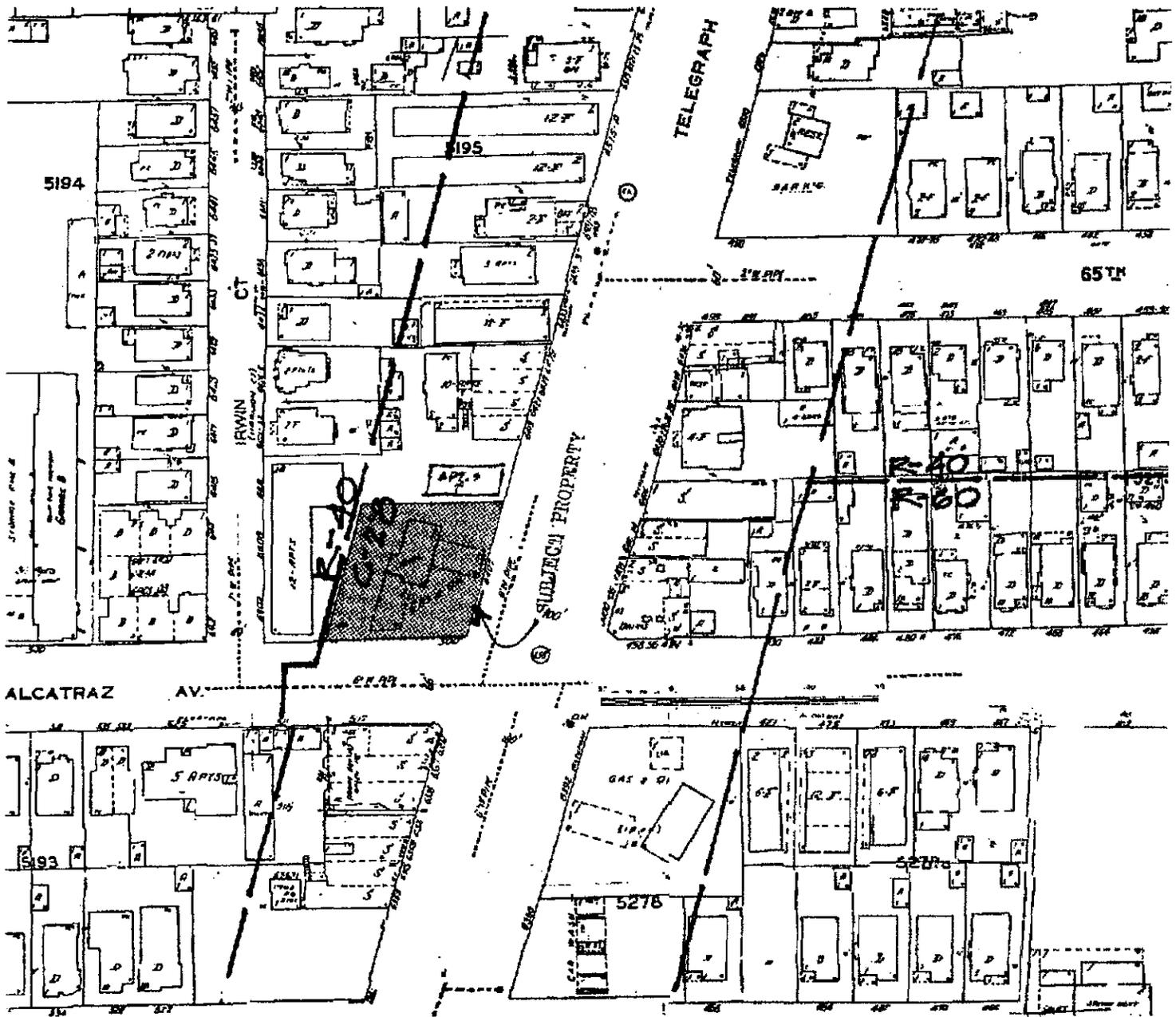
By: BILL QUESADA, Planner III
Zoning Division

cc: Herbye White, Parks and Recreation
Frank Kliewer, OPB Operations Division

Attachments: Landscape sketches

FMC1 6D92268.BG

CITY PLANNING COMMISSION



Location Map



Meeting Date: JAN. 13 93	Agenda Item No.: 7	Case File No.: D92-268
APPLICANT: REGNA INDUSTRIES, INC.		
Address/Location: 6407 TELEGRAPH AVENUE		
Zoning District: C-2B	Zoning Map No(s): #330	

City of Oakland PLANNING DEPARTMENT



3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

December 11, 1992
1211SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during November 1992, and site activities anticipated for the month of December 1992.

November 1992 Activities

- Performed groundwater monitoring.
- Continued permitting of interim remediation system to meet new City of Oakland Zoning requirements. City of Oakland has now requested that ARCO update the landscaping at the site before a permit to construct the remediation system will be issued. This will cause substantial additional delay in getting the interim remediation system permitted and installed by the originally estimated March 1993 date.

Site Status Update
ARCO Station 374, Oakland, California

December 11, 1992
61026.02

Work Anticipated for December 1992

- Continue monthly groundwater monitoring.
- Submit Final Third Quarter 1992 Quarterly Monitoring Report to ARCO and regulators.
- Continue permitting of interim remediation system to meet new City zoning requirements as discussed in September 30, 1992 meeting at Alameda County Health Care Services Agency.
- Sent letter to Alameda County Health Care Services Agency on December 9, 1992 requesting assistance in permitting the system.
- Evaluate contractor bids for installation of interim remediation system at the site.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

██████████ 1992
1105SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 3 ██████████ Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during October 1992, and site activities anticipated for the month of November 1992.

October 1992 Activities

- o Performed groundwater monitoring.
- o Continued permitting of interim remediation system to meet the City of Oakland Zoning requirements.

Site Status Update
ARCO Station 374, Oakland, California

November 6, 1992
61026.02

Work Anticipated for November 1992

- o Continue monthly groundwater monitoring.
- o Continue permitting of interim remediation system to meet new City zoning requirements as discussed in ~~September 10, 1992 meeting at Alameda County Health Care Services Agency.~~
- o Evaluate contractor bids for installation of interim remediation system at the site.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board



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

WE ARE SENDING YOU:

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

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files

REMARKS: 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



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

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.

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

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

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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 Mobil 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.

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

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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

1:45 PM →
11/19/92

Arco meeting

Bobby So
Juliett Shin
Sean Hugo
Hugh Murphy
Jan
Gail Coffman
John Dargue
Michael
Whelan

Juliett Shin # 5387 - 20200 Keperian Blvd - Hayward
1:45 - 2:30 active station ✓
Reports will be submitted before Xmas

update
of time
schedules
dec. 17, 1992
* Will be updating ^{all} time schedules →
before X-mas
Construction - 1993 July start-up of system
Still current for systems construction

* → Beacon site - Pam Evans Site Clean-up order
↳ talked to Pam & ab

PM
2:30-2:50

11/19/92
② #362

City of Hayward - 29900 Mission Blvd.
Hayward, CA
Hugh Murphy

30-day notice to operators
RAP → done

area of influence → per VET (20 ft radius)

3 gpm 1st construction (late February)
Schedules - mid March start-up

[Diane Bradshaw →
Re-landscape plan → 6407 Telegraph
→ conditional use permit
C-28 to C-20]

Soil Vapor Attraction - Tight clay, may
use air sparging
- MW-1 solvent found } City Hayward
↳ destroyed } requested test for VOC
on MW3 (8240)

2:50

#3

365 Jackson Street Hayward CA ✓

→ DTW (50 ft)

MW1 - building pressure - backfilled w/
sea gravel, not contained ^{maybe} mounding effect
ARCO will check cause

MW3 = did vapor extraction test -

Report of off site wells, RW, Work plan for
aquifer test, ^{MW's} - due before Xmas →

started with
Site, ^{very} little data →

Schedule for remediation →

MW-7 - no TOG & VOC's. ^{maybe} but up gradient of WO
tank & not down gradient & maybe
captured.

→ Aquifer Test results → 1st March

Report → April 1, 1993

(cul vapor) RAP → May 1993 (permitting
being finished)

Design → July 1 1993

Construction (closed the site) →

6-8 wks contractor to procure equipment →

4-6 wks start construction to system start-up
around the bid ~~6 wks~~ to construction

ARCO meeting:

① * Monthly update must have a committed date (per Eddy So)

② Letter from ARCO:
Revising schedules - submit (Dec.)

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

October 16, 1992
1016SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during September 1992, and site activities anticipated for the month of October 1992.

September 1992 Activities

- Performed groundwater monitoring.
- Sent Final Plans and Specifications for interim soil and groundwater remediation system out to bidding contractors.
- Sent Final Report Offsite Subsurface Investigation to ARCO and Regulatory Agencies.

Site Status Update
ARCO Station 374, Oakland, California

October 16, 1992
61026.02

Work Anticipated for October 1992

- Continue monthly groundwater monitoring.
- Continue permitting of interim remediation system to meet new City zoning requirements as discussed in September 30, 1992 meeting at Alameda County Health Care Services Agency.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office
Richard Hiatt, Regional Water Quality Control Board

October 12, 1992

92 OCT 11 PM 12:55

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

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

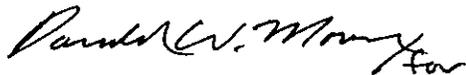
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1992; also included are projected site activities for the fourth quarter of 1992 and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

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

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

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

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Report on Offsite Subsurface Environmental Investigation at ARCO Station 374, 6407 Telegraph Avenue, Oakland, CA 60025.02	9/22/92	RESNA
Plans and Construction Specifications and Contract Documents for Installation of Interim Soil and Groundwater Remediation Systems 60025.08	9/11/92	RESNA
Letter Report Quarterly Groundwater Monitoring Second Quarter 1992 60025.07	8/28/92	RESNA
Letter Report Quarterly Groundwater Monitoring First Quarter 1992 60025.07	5/5/92	RESNA
BAAQMD Permit Application for Authority to Construct/Permit to Operate an Interim VES. 60025.08	4/1/92	RESNA
Letter Report Quarterly Groundwater Monitoring, Fourth Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	3/9/92	RESNA
Addendum Two to Work Plan for Interim Soil and Groundwater Remediation 60025.08	3/6/92	RESNA
Letter Report Quarterly Groundwater Monitoring, Third Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	11/21/91	RESNA
Letter Report Quarterly Ground-Water Monitoring, Second Quarter 1991 ARCO Station 374, Oakland, CA 60025.02	9/4/91	RESNA
Report of Pumping and Recovery Test Results 60025.04	7/31/91	RESNA/Applied GeoSystems
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation. AGS 60025.03	5/15/91	RESNA/Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, First Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-2	4/16/91	RESNA/Applied GeoSystems
Report on Limited Subsurface Environmental Investigation at ARCO Station 374, Oakland, CA. AGS 18039.03	3/27/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Fourth Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-1	3/26/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Third Quarter 1990 at ARCO 374, Oakland, CA AGS 60025-1	8/30/90	Applied GeoSystems

REPORTDATECONSULTANT

Letter Report on Purging and Sampling
Tank Pit Monitoring Well at
ARCO Station No. 374, Oakland, CA
AGS 18039-4

1/5/89

Applied
GeoSystems

Work Plan, Supplemental Subsurface
Environmental Investigation at
ARCO Station 0374, Oakland, CA
AGS 018039-3W

9/11/88

Applied
GeoSystems

Report Environmental Investigation
Related to Underground Tank Removal
018039-2

8/1/88

Applied
Systems

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

6/15/88

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcatraz Property, Oakland, CA

5/27/86

AquaScience
Engineers



92 SEP 25 09:47

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

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

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

September 21, 1992
0908SHUG.374
61026.02

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during August 1992, and site activities anticipated for the month of September 1992.

August 1992 Activities

- Performed groundwater monitoring.
- Submitted Final Second Quarter 1992 Quarterly Groundwater Monitoring Report to ARCO and regulators.
- Submitted Draft Plans and Specifications of interim soil and groundwater remediation systems for the site to ARCO for review.

Site Status Update
ARCO Station 374, Oakland, California

September 21, 1992
61026.02

Work Anticipated for September 1992

- Continue monthly groundwater monitoring.
- Initiate preparation of draft work plan addendum for additional onsite and offsite wells.
- Send Final Plans and Specifications for interim soil and groundwater remediation system out to bidding contractors.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company
Mark Thomson, Alameda County District Attorney's Office



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

August 21, 1992
0811SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during July 1992, and site activities anticipated for the month of August 1992.

July 1992 Activities

- Performed groundwater monitoring.
- Submitted draft of the Second Quarter 1992 Quarterly Groundwater Monitoring Report to ARCO.

Work Anticipated for August 1992

- Continue monthly groundwater monitoring.
- Submit Draft Plans and Specifications of interim soil and groundwater remediation systems for the site to ARCO for review.
- Initiate preparation of work plan addendum for additional onsite and offsite wells.

Site Status Update
ARCO Station 374, Oakland, California

August 21, 1992
61026.01

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company

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

July 24, 1992
0724SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during June 1992, and site activities anticipated for the month of July 1992.

June 1992 Activities

- Performed groundwater monitoring.
- Submitted draft report of offsite environmental subsurface investigation to ARCO.
- Received Bay Area Air Quality Management District's Authority to Construct permit for the proposed interim soil remediation system at the site.

Work Anticipated for July 1992

- Continue monthly groundwater monitoring, and submit draft Second Quarter 1992 Groundwater Monitoring Report to ARCO for review.
- Continue design of interim soil and groundwater remediation systems for the site.

Site Status Update
ARCO Station 374, Oakland, California

July 24, 1992
61026.01

- Propose additional onsite and offsite wells for site delineation purposes.
- Initiate preparation of work plan addendum.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company

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



92 JUL -6 PM 2:42

July 3, 1992

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

Subject: Minutes of Meeting on June 11, 1992 at the Regional Water Quality Control Board (RWQCB) to discuss work progress at ARCO Stations which are under the jurisdiction of Mr. Richard Hiett of the RWQCB.

Mr. Hiett:

I would like to thank you and the people from the Alameda County Health Care Services Agency (ACHCSA) for agreeing to meet with ARCO and our consultants concerning ARCO sites within your regulatory jurisdiction located within Alameda County, California. This letter is our understanding of the status and schedules for the sites which were discussed. If you should notice any discrepancies from your understanding of the status or schedule of these sites noted, please notify ARCO. This letter is a brief overview of a meeting held at the RWQCB in Oakland, California at 2:00 pm on Thursday, June 11, 1992 concerning work progress and plans for future work at ARCO Stations in Alameda County, California which are currently under the regulatory jurisdiction of Mr. Richard Hiett of the RWQCB. Attending the meeting were Mr. Richard Hiett and Mr. Lester Feldman of the RWQCB; Ms. Susan Hugo, Mr. Scott Seery, Mr. Ed Howell, Ms. Juliet Shin, and Mr. Barney Chan of the Alameda County Health Care Services Agency (ACHCSA); Mr. Michael Whelan of ARCO Products Company (ARCO); Mr. John Vargas and Ms. Diane Lundquist of GeoStratagies Inc.; and, Ms. Valli Voruganti and Mr. Joel Coffman of RESNA Industries.

The meeting was held at the request of ARCO to introduce Mr. Michael Whelan as the acting environmental engineer overseeing ARCO sites in Alameda County, California and to provide the RWQCB and the ACHCSA a brief overview of work being performed at the subject sites.

An agenda for the meeting had previously been sent to Ms. Susan Hugo of the ACHCSA for distribution among the various caseworkers within her agency. The following is an overview of the agenda and items for discussion:

Mr. Richard Hiatt
July 3, 1992

<u>ARCO Station</u>	<u>Address & City</u>
276	10600 MacArthur Blvd., Oakland
374	6407 Telegraph Ave., Oakland
414	3000 Shattuck Ave., Berkeley
2035	1001 San Pablo Ave., Albany
2107	3310 Park Blvd., Oakland
2152	22141 Center St., Castro Valley
2169	899 W. Grand Ave., Oakland
2185	9800 E. 14th St., Oakland
4494	566 Hegenberger Rd., Oakland
4931	731 W. MacArthur, Oakland
6041	7249 Village Parkway, Dublin
6148	5131 Shattuck Ave., Oakland

Topics for discussion to include:

- Permitting and Access Problems, including City of Oakland
- Anticipated Remediation Schedules
- Plan of Action to Complete Delineation of Site
- Possible/Probable Contributing Offsite Polluters, Help in gaining access/cooperation/information from them
- Quicker approval of addendums to work plans, may we proceed without approval in cases where additional monitoring wells are being added to a monitoring program?

Mr. Richard Hiett
July 3, 1992

The meeting convened at 2: 00 pm on June 11, 1992 and upon completion of introductions, Mr. Ed Howell indicated that the ACHCSA was the oversight agency for all of Alameda County with exception to the cities of Berkeley, San Leandro, Hayward, Fremont, Newark, Union City, and Pleasanton. The Alameda County Water District (ACWD) has oversight in Fremont, Newark, and Union City, California. Currently, the ACHCSA is negotiating with the cities of Berkeley and San Leandro to allow ACHCSA oversight of sites within their cities. Mr. Hiett explained that he was the RWQCB engineer for sites in Alameda County which include all sites with exception of the cities which regulate themselves (referenced above) and the city of Livermore. He explained that John Jang was the RWQCB engineer with responsibility for the self regulated cities of Berkeley and San Leandro and that Eddy So has responsibilities for the sites within the cities of Livermore and Hayward and the cities within the ACWD. Mr. Barney Chan of the ACHCSA is now in charge of overseeing sites for the ACHCSA which were previously under the direction of Mr. Paul Smith and Mr. Larry Seto of the ACHCSA. These sites include ARCO Stations 276 and 2107 in Oakland, California and ARCO Station 2035 in Albany, California.

Mr. Whelan explained that ARCO's general approach to investigation consists of multiple phases of work, often being performed simultaneously. To expedite the processes involved in delineating and remediating a site, ARCO often will gather results from a subsurface investigation, vapor extraction test, or aquifer test and pass the information to engineers so remedial system design can begin before formally finalizing the reports. To further expedite the process, ARCO requested for the ACHCSA to speed up their review of work plans and remedial action plans. Mr. Whelan also explained that often during tank removal and replacement activities, ARCO installs several types of piping in trenches across the site which can later be used in various types of remediation systems. This piping is designed to accommodate electrical and air lines for pumps, groundwater extraction and soil vapor extraction. This approach minimizes disruption at the site during future installation of various remediation systems.

Site specific items of discussion were as follows:

Station 276, 10600 Mac Arthur Blvd., Oakland, California

Mr. Chan raised several concerns related to Station 276 including a desire for the groundwater gradient of the shallow perched water-bearing zone at the site to be established and full delineation of hydrocarbon impacted soil and groundwater at the site. The halogenated volatile organic compounds (VOCs) found in groundwater at the site were also discussed and it was disclosed that ARCO would be installing offsite upgradient wells to determine an offsite source was responsible for VOCs found in groundwater at the site. It

Mr. Richard Hiett
July 3, 1992

was pointed out that during removal of the waste oil storage tank at the site, there was no evidence of waste oil contamination in soils surrounding the tank and no onsite source for the VOCs. It was also pointed out that the adjacent upgradient property had been an automobile manufacturing plant from circa 1920's to the late 1950's and that operations associated with those activities may be the source of the VOC problem in groundwater at the site.

ARCO stipulated that they do not want to start pumping and treating VOC impacted groundwater at the site until the source of the VOC contamination is identified and the upgradient extent of VOCs in soil and groundwater is delineated. ARCO does not want to clean up groundwater that was impacted by others. Pumping prior to resolution of these matters may actually pull more VOCs onto the site from a probable offsite source. The adjacent upgradient property is listed on the fuel leaks list as Foothill Square Shopping Center. Mr. Richard Gilcrease is the representative of the current property owner, Drake Builders, whom ARCO has been in contact with concerning installation of monitoring wells on the adjacent upgradient property. The last address known for correspondence with Drake Builder's is: 5200 Panama Avenue, Richmond, California 94804. Mr. Lester Feldman stated that if the VOC problem is shown to originate from offsite that the RWQCB will pursue the responsible offsite parties for clean up.

The installation of onsite vapor extraction wells and their connection to an existing vapor extraction system at the site was also discussed. At least one of the onsite vapor extraction wells in the southwest corner of the site will be completed as a combination vapor extraction/groundwater monitoring well, if the shallow perched water-bearing zone is not encountered, to help delineate the onsite extent of hydrocarbon impacted groundwater and to provide better groundwater gradient information.

It was explained that ARCO's approach to remediation was to close the site down once and install all necessary and anticipated remediation piping. At this site, it was pointed out that tying into groundwater recovery well RW-1 doesn't imply that ARCO will or is required to remediate the groundwater since the VOCs there probably originate from an offsite source and gasoline hydrocarbons have not impacted groundwater in that portion of the site.

Station 374, 6407 Telegraph Ave., Oakland, California

Discussion about this site with Ms. Susan Hugo of the ACHCSA and Mr. Hiett of the RWQCB included mention of the fact that obtaining encroachment permits from the City of Oakland had been a lengthy, time consuming process which had taken some six months to complete. Mr. Hiett suggested getting names of personnel at the City of Oakland and

Mr. Richard Hiatt
July 3, 1992

that maybe his agency could contact these people to speed up future encroachment permitting. Ms. Hugo was informed that two offsite and downgradient monitoring wells (MW-5 and MW-6) had recently been installed and that soils and groundwater from the borings/wells contained nondetectable levels of gasoline hydrocarbons. A technical report with all field results related to the installation of these offsite wells is being prepared by RESNA.

It was pointed out that a service station located across Telegraph Avenue to the east in the upgradient or cross gradient direction from ARCO Station 374 had been taken out of service during the mid 1980s and that there was a report documenting soil contamination from that site. There is no record in the files that an investigation to determine if groundwater beneath this former service station was impacted by hydrocarbons detected in the soils. This was of concern to ARCO as the onsite monitoring well MW-1, located cross gradient and relatively close to the source area (former tanks) has been consistently free of hydrocarbon impacted groundwater while the onsite monitoring well MW-2, located further from the source and in the upgradient direction from the source at the ARCO site has consistently contained hydrocarbon impacted groundwater. This leads ARCO to believe hydrocarbon impacted groundwater below this portion of the site may originate from the site across Telegraph Avenue to the east.

Ms. Hugo mentioned that an onsite groundwater monitoring well (MW-4) had once contained total petroleum hydrocarbons as diesel. Mr. Whelan pointed out that ARCO had never stored diesel at the site and that weathered gasoline would often show up as diesel on laboratory chromatograms.

In addition, Ms. Hugo gave verbal approval of the Remedial Action Plan for interim soil and groundwater remediation submitted by RESNA on behalf of ARCO.

Station 414, 3000 Shattuck Ave., Berkeley, California

As stated above, sites being discussed in this meeting were those under guidance of Mr. Hiatt of the RWQCB. This site is currently under direction of Mr. Jang and therefore was passed over and not discussed in this meeting.

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

Mr. Barney Chan of the ACHCSA recently assumed oversight responsibilities for this site from Mr. Larry Seto. He was not completely up to date with previous activities conducted at the site. It was mentioned that the tanks had been replaced during July and August of

Mr. Richard Hiatt
July 3, 1992

1991 and that a subsurface investigation including an aquifer test had been completed at the site. Resna prepared technical reports on behalf of ARCO for the subsurface investigation and the tank replacement. It was also brought to Mr. Chan's attention that a work plan addendum had been prepared by RESNA and delivered to the ACHCSA during May 1992. Mr. Chan said he would review the work plan and get back to ARCO and RESNA with any comments he might have. As of the date of this letter, approval of this work plan addendum has not been received. Additional wells in the vicinity of the new tanks will be proposed under a separate phase of work.

Station 2107, 3310 Park Blvd., Oakland, California

Mr. Barney Chan of the ACHCSA recently assumed oversight responsibilities of this site from Mr. Paul Smith. He was not completely up to date with previous activities conducted at the site. Mr. Joel Coffman and Ms. Valli Voruganti of RESNA explained the proposed groundwater treatment system to be installed at the site along with installation of offsite monitoring wells to delineate the extent of hydrocarbons in groundwater beneath the site. Mr. Chan requested that groundwater from the wells be analyzed for total petroleum hydrocarbons as diesel (TPHd) as TPHd had previously been detected at the site. Mr. Whelan of ARCO explained that ARCO had never stored diesel at the site and that weathered gasoline often showed up on laboratory chromatograms as diesel. It was agreed that downgradient wells will be sampled one time to confirm that TPHd found in the soil was indeed weathered gasoline.

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

Mr. Scott Seery of the ACHCSA was informed that the proposed soil borings (B-19 and B-20) had been drilled and all soil samples collected for analysis from the borings contained nondetectable concentrations of gasoline hydrocarbons, therefore, vapor extraction wells were not constructed in the borings. It was explained by RESNA that the groundwater has only shown trace amounts of hydrocarbon impact on two quarterly monitoring episodes, once each during the spring of 1990 and 1991. All wells have contained nondetectable concentrations of gasoline hydrocarbons since the spring of 1991. Mr. Seery made mention of the fact he had not received a copy of the report related to the soil borings. ARCO and RESNA told Mr. Seery that the report should be issued within 30 days.

It was noted that the Bay Area Air Quality Management District had issued a permit granting RESNA and ARCO the authority to construct a soil vapor extraction system at the site. Progress of obtaining other permits was also discussed.

Mr. Richard Hiatt
July 3, 1992

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

Mr. John Vargas discussed the site background for this site. Four monitoring wells and one groundwater extraction well were installed in March 1992 to assess the groundwater conditions at the site. The previous tanks were removed and relocated between February and May, 1992. This work was performed in response to petroleum hydrocarbons identified in a monitoring well adjacent to the previous tank complex. A report of these field activities is in progress and will be submitted to the ACHCSA in July, 1992. In addition, three vapor extraction wells and one groundwater extraction well, located in the new tank complex, were installed on June 8, 1992. A vapor extraction test was performed on June 11, 1992. A report documenting the results of the vapor extraction test and well installations is in preparation.

Ms. Susan Hugo queried how we chose the locations of these wells. Mr. Vargas explained that since petroleum hydrocarbons had impacted onsite groundwater, wells were located at the property boundaries in addition to a well within the previous tank complex. Since petroleum hydrocarbons were identified in an upgradient well, there may be offsite sources. Planned site activities include research for offsite sources, performance of an aquifer test and offsite assessment. Once aquifer characteristics are determined, ARCO will initiate design and permitting of a remediation system.

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

Mr. Barney Chan discussed how he wanted the subsurface investigation to proceed as he had previously discussed with Mr. Chuck Carmel of ARCO and Mr. Paul Supple of Roux Associates. It was explained that the site was still fenced off and under construction due to a problem encountered by the contractors that performed the tank removal and replacement. Mr. Chan also asked about the subsurface piping that was installed at the site to be used for future remediation. Mr. Whelan explained that piping for remediation purposes was scheduled to be installed at the site, but, due to problems associated with the subcontractor, the piping was not installed and will be installed during the construction phase of any remediation system which may need to be built at the site. The tank replacement report was recently submitted to the ACHCSA by Roux Associates.

As documented in a previous letter written to Mr. Barney Chan, it was also discussed with Mr. Chan that ARCO wished to hold off the initiating of obtaining offsite access for installation of offsite monitoring wells at the site until onsite groundwater monitoring wells were installed and monitored to determine the gradient and direction of groundwater flow beneath the site.

Mr. Richard Hiett
July 3, 1992

Station 4494, 566 Hegenberger Rd., Oakland, California

Mr. Chan expressed concern that although ARCO had submitted a permit application for removal and replacement of the underground storage tanks at the site and that approval for tank replacement had been granted in November 1991, he has still not been given a firm schedule for the replacement of the tanks at the site. Mr. Whelan explained the different responsibilities of the various groups within ARCO and that the ARCO construction department was responsible for the tank replacement scheduling and that he was not involved. However, Mr. Whelan also pointed out that ARCO is in compliance with tank testing requirements and that results of tank and product line leak tests show the tanks and lines are not leaking. The site is on an ARCO tank replacement list, but, the schedule has not been finalized. ARCO will replace the tanks in accordance with deadlines and other requirements as set forth by applicable state guidelines.

It was disclosed that after almost a year of negotiation, an agreement had finally been reached with the adjacent property owner downgradient from the site for installation of offsite groundwater monitoring wells. This work is to be performed in July 1992 along with installation of an additional onsite monitoring well in the northwestern portion of the site.

Station 4931, 731 W. MacArthur, Oakland, California

Mr. John Vargas and Ms. Diane Lundquist discussed the progress at this site since the January 17, 1992 meeting held between ARCO and the ACHCSA. Floating product has been observed in wells A-4 and A-8. A product skimmer will address the floating product in well A-8 until the remedial system is installed. Well A-2, which is adjacent to the former tank complex, was analyzed for oil and grease and lead. These constituents were not identified. The offsite upgradient well and onsite recovery wells were scheduled to be drilled June 12 and 15, 1992. A well located crossgradient to the east of the site is not feasible to install due to access problems.

The tank replacement and relocation project is still in progress. Additional soils were removed from the previous tank complex as requested by the ACHCSA in the January 1992 meeting. Some impacted soil, containing less than 151 parts-per-million hydrocarbons, was left in place due to site constraints (ARCO's facility building and pump islands) which limited the extent of the excavation. A vapor extraction test indicated that vapor extraction is not a feasible option to remediate these areas.

Permits for construction of the remediation system for groundwater discharge have been obtained. The remediation system trenching and construction was scheduled to begin in mid

Mr. Richard Hiett
July 3, 1992

to late June, 1992. Start-up of the remedial system is scheduled for the third quarter of 1992.

Station 6041, 7249 Village Parkway, Dublin, California

RESNA explained to Mr. Scott Seery that there is a Unocal Station across the street directly west of the ARCO site which has reported significantly higher concentrations of hydrocarbon impacted groundwater. This was pointed out for informational purposes only as RESNA, on behalf of ARCO, is preparing a work plan with proposed work which includes installation of additional monitoring wells, installation of vapor extraction wells, a performance of a vapor extraction test, installation of a groundwater recovery well, and performance of an aquifer pumping and recovery test. This work plan will be submitted to ARCO and the proper regulatory agencies upon completion in July 1992.

Station 6148, 5131 Shattuck Ave., Oakland, California

Ms. Hugo stated she had not received the subsurface investigation report associated with the waste oil investigation at the site. Mr. Whelan explained that ARCO is currently reviewing all the analytical data associated with the investigation and that the report will be issued shortly. ARCO is awaiting backup from the laboratory to complete the review of the analytical data. It was also stated a work plan with proposed additional work at the site is being prepared by RESNA for submittal to ARCO and the proper regulatory agencies in July 1992.

Other Topics for discussion:

- **Permitting and Access Problems, including City of Oakland**

Mr. Hiett asked that if problems are encountered gaining encroachment permits, he be given the names of people at the city in charge of issuing the permits so he may phone them and help expedite the process.

- **Anticipated Remediation Schedules**

ACHCSA asked that any delays which slow down the remediation of sites beyond the schedules which were submitted to the Alameda County District Attorney be carefully documented.

Mr. Richard Hiatt
July 3, 1992

- **Plan of Action to Complete Delineation of Site**

Mr. Whelan explained to the RWQCB and ACHCSA that ARCO is aggressively attempting to fully delineate the onsite and offsite extents of any problems associated with these sites.

- **Possible/Probable Contributing Offsite Polluters, Help in gaining access/cooperation/information from them**

This topic was discussed while reviewing the status of each site.

- **Quicker approval of addendums to work plans, may we proceed without approval in cases where additional monitoring wells are being added to a monitoring program?**

In addressing the request from ARCO for quicker approval of work plans and addendums to work plans, Mr. Chan pointed out that a responsible party does not have to wait for approval of any kind to implement interim remedial measures at a site.

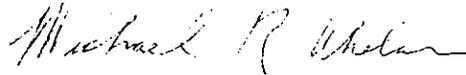
A brief discussion was held about the law under Title 23, Article 11, Chapter 16, Sections 2722 (b)(5) and 2726 (c)(1), which allows for proceeding with proposed work in work plans if not having received approval after 60 days from submittal. Mr. Whelan asked that ARCO be allowed to proceed with proposed work in work plans if the scope of work was the addition of monitoring wells or other work not associated specifically with complex remediation alternatives. Mr. Whelan pointed out that many times in the past work had been significantly delayed due to the time required to obtain work plan approval from the ACHCSA. Mr. Scott Seery asked that ARCO send a note to the ACHCSA requesting work plan review if approval had not been granted when ARCO and it's consultant are ready to implement work or after 45 days from work plan submittal date. This note, with attached figure of proposed well locations, should state that proposed work will proceed if approval has not been granted within the 60 day guideline.

Upon completion of this discussion, the meeting was adjourned at approximately 5:10 pm.

Mr. Richard Hiatt
July 3, 1992

If you have any questions or comments about these meeting minutes, please contact me at (415) 571-2449.

Sincerely,

A handwritten signature in cursive script that reads "Michael R. Whelan".

Michael R. Whelan
Environmental Engineer

cc: Lester Feldman, RWQCB
Susan Hugo, ACHCSA
Chris Winsor, ARCO
John Meck, ARCO
John Vargas, GeoStratagies
Joel Coffman, RESNA Industries

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

June 18, 1992
0618SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during May 1992, and site activities anticipated for the month of June 1992.

May 1992 Activities

- Performed groundwater monitoring.
- Conducted records search for the three off site corners at the intersection of Telegraph and Alcatraz Avenues.

Work Anticipated for June 1992

- Monthly groundwater monitoring will continue.
- Submit draft report of offsite environmental subsurface investigation to ARCO.
- Continue design and permitting of groundwater treatment system for the site.

Site Status Update
ARCO Station 374, Oakland, California

June 18, 1992
61026.01

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company

6/11/92

1260 Park St. Alameda

Site - Arco meeting 6/11/92

Sites to be discussed during meeting at RWQCB on June 11, 1992

<u>ARCO Station</u>	<u>Address & City</u>
276	10600 Mac Arthur Blvd., Oakland
374	6407 Telegraph Ave., Oakland
414	3000 Shattuck Ave., Berkeley
2035	1001 San Pablo Ave., Albany
2107	3310 Park Blvd., Oakland
2152	22141 Center St., Castro Valley
2169	899 W. Grand Ave., Oakland
2185	9800 E. 14th St., Oakland
4494	566 Hegenberger Rd., Oakland
4931	731 W. MacArthur, Oakland
6041	7249 Village Parkway, Dublin
6148	5131 Shattuck Ave., Oakland

VOC problems
2 up gradient wells

July 1992 (late) system in place
6 MWs - 4 VWs - SW direction

John Vargas / Alcone Lindquist

3 MWs + 1 Boring (SW)

5275 Washington Lowell Blvd.

Topics for discussion to include:

- Permitting and Access Problems, including City of Oakland - *name of people signing permit*
- *delays of* Anticipated Remediation Schedules → *on schedule or ahead of schedule*
- *next phase of work* → Plan of Action to Complete Delineation of Site
- *joint remediation* → Possible/Probable Contributing Offsite Polluters, Help in gaining access/cooperation/information from them

Quicker approval of addendums to work plans, may we proceed without approval in cases where additional monitoring wells are being added to a monitoring program?

drilling schedule then for permit to flag

Interim schedule for corrective action

EP/ADP
change permit
\$12,000
Rice dump
waste permit
change permit

(6/11/92)

LIST OF ARCO SITES WITH UGT CLEANUP

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

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

May 22, 1992
0505SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during April 1992, and site activities anticipated for the month of May 1992.

April 1992 Activities

- Performed groundwater monitoring.
- Initiated work on a design/drawing package for the proposed interim soil and groundwater remediation system.
- Drilled and installed offsite monitoring wells MW-5 and MW-6.
- A State-certified waste hauler removed the soil cutting pile generated during the drilling of the two offsite wells MW-5 and MW-6.
- Offsite wells MW-5 and MW-6 were developed and surveyed.
- Initiated additional offsite subsurface investigation report.

UTID/ Status	Name of Site	Site Address	#Tanks	PERMITS:
BillID	=====	=====	=====	=====
<i>NS</i>		<i>(SS) FP ✓ 712 Lewelling Blvd. S.L.</i>		
<i>SH</i>	3629 C Arco Station #02112	FP ✓ 1260 Park St. Alameda, CA 94501	4	I:12/27/91 F:01/23/92
<i>LS</i>	3858 C Arco AM/PM Minimarket	FP #0 ✓ 1001 San Pablo Ave. Albany, CA 94706	4	I:-0- F:-0-
	658 C Arco Station #04977	2770 Castro Valley Blvd. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
<i>JS</i>	3943 C Arco Station #02152	22141 Center St. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
<i>JA</i>	1053 C Arco Station #06041	7249 Village Pkwy. Dublin, CA 94568	3	I:09/06/88 F:-0-
<i>DE</i>	817 C Arco Station #05387	FP ✓ 20200 Hesperian Blvd. Hayward, CA 94541	4	I:09/06/88 F:-0-
<i>SH</i>	2112 C Springtown Arco	909 Bluebell Dr. Livermore, CA 94550	3	I:-0- F:-0-
	3941 C Arco Facility #00498	286 S. Livermore Ave. Livermore, CA 94550	3	I:09/06/88 F:-0-
<i>SH</i>	3873 C Arco Station #00771	FP ✓ 899 Rincon Ave. Livermore, CA 94550	4	I:09/06/88 F:-0-
<i>SH</i>	-0- C Arco Station #06113	785 E. Stanley Blvd. Livermore, CA 94550	3	I:09/06/88 F:-0-
	198 R Wong's Arco	2032 E. - 12th St. Oakland, CA 94606	0	I:-0- F:-0-
<i>3C</i>	3876 C Arco Station #02185	9800 E. - 14th St. Oakland, CA 94603	4	I:09/06/88 F:-0-
	1130 C Freeway Arco	2740 - 98th Ave. Oakland, CA 94605	4	I:10/13/87 F:-0-
<i>DB</i>	3793 C Arco Station #02169	<i>(SH) ✓ 889 W. Grand Ave.</i> Oakland, CA 94607	4	I:-0- F:-0-
<i>PS</i>	3749 R Gin's Arco Service	706 Harrison St. Oakland, CA 94612	0	I:-0- F:-0-
<i>3C</i>	3854 C Arco Station #04494	FP ✓ 566 Hegenberger Rd. Oakland, CA 94621	3	I:02/05/88 F:01/30/91
	1038 C Zema Ctr. Inc. Arco	2951 High St. <i>Arco?</i> Oakland, CA 94619	5	I:02/05/88 F:-0-
<i>SH</i>	3874 C Arco Station #04931	FP ✓ 731 W. MacArthur Blvd. Oakland, CA 94609	4	I:-0- F:-0-
<i>PS</i>	3756 C Arco Station #00276	FP ✓ 10600 MacArthur Blvd. Oakland, CA 94605	4	I:-0- F:-0-
	851 C Mountain Blvd. Arco	#796 2844 Mountain Blvd. Oakland, CA 94602	4	I:04/14/88 F:-0-
<i>OS</i>	-0- C Arco Station #02107	3310 Park Blvd. Oakland, CA 94610	3	I:09/06/88 F:-0-
	3942 C Arco Station #06002	6235 Seminary Ave. Oakland, CA 94605	4	I:09/06/88 F:07/30/91
<i>SH</i>	3626 C Arco Station #06148	5131 Shattuck Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
<i>SH</i>	-0- C Arco Station #00374	FP ✓ 6407 Telegraph Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
	-0- F freedom arco mini mart	15101 Freedom Ave. <i>Arco?</i> San Leandro, CA 94578	3	I:-0- F:-0-
	1794 C Tharco	2222 Grant Ave. <i>Arco?</i> San Lorenzo, CA 94580	1	I:08/16/88 F:-0-
<i>PE</i>	779 C Arco Station #00608	FP ✓ 17601 Hesperian Blvd. San Lorenzo, CA 94580	4	I:09/06/88 F:12/31/91

PEV REMEDIATION : *FP ✓ 20200 Hesperian Blvd. Hayward* *5yr permit*

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

April 14, 1992
0407SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during March 1992, and site activities anticipated for the month of April 1992.

March 1992 Activities

- Submitted Fourth Quarter 1991 Quarterly Groundwater Monitoring Report to ARCO and governing regulatory agencies.
- Submitted Addendum Two to Work Plan for Interim Soil and Groundwater Remediation to ARCO and governing regulatory agencies.
- Received encroachment and excavation permits from the City of Oakland to drill and install two offsite monitoring wells MW-5 and MW-6 on Alcatraz Avenue and Irwin Court.
- Informed USA underground alert about the scheduled drilling.
- Contacted a private underground utility locator to locate underground utilities in the proposed offsite well locations.
- Performed quarterly groundwater sampling and monitoring.

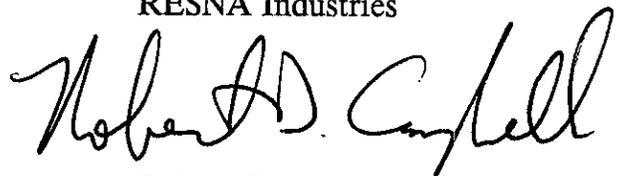
- Initiated work on a design/drawing package for the proposed interim soil and groundwater remediation system.

Work Anticipated for April 1992

- Drill and install two offsite monitoring wells (MW-5 and MW-6) on Alcatraz Avenue and Irwin Court.
- Submit soil samples for laboratory analyses to an ARCO-contracted State-certified Laboratory.
- Develop and sample offsite wells MW-5 and MW-6.
- An ARCO-contracted State-certified hazardous waste hauler to remove drill cuttings from the site.
- Monthly groundwater monitoring will continue.
- Continue with completion and submission of an Authority-to-Construct/Permit-to-Operate Application to the Bay Area Air Quality Management District (BAAQMD) for installation of the proposed interim soil and groundwater remediation system.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA Industries



Robert D. Campbell
Staff Geologist



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company

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

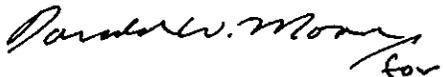
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the first quarter of 1992; also included are projected site activities for the second quarter of 1992 and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

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
BAAQMD Permit Application for Authority to Construct/Permit to Operate an Interim VES. 60025.08	4/1/92	RESNA
Letter Report Quarterly Groundwater Monitoring, Fourth Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	3/9/92	RESNA
Addendum Two to Work Plan for Interim Soil and Groundwater Remediation 60025.08	3/6/92	RESNA
Letter Report Quarterly Groundwater Monitoring, Third Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	11/21/91	RESNA
Letter Report Quarterly Ground-Water Monitoring, Second Quarter 1991 ARCO Station 374, Oakland, CA 60025.02	9/4/91	RESNA
Report of Pumping and Recovery Test Results 60025.04	7/31/91	RESNA/Applied GeoSystems
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation. AGS 60025.03	5/15/91	RESNA/Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, First Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-2	4/16/91	RESNA/Applied GeoSystems
Report on Limited Subsurface Environmental Investigation at ARCO Station 374, Oakland, CA. AGS 18039.03	3/27/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Fourth Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-1	3/26/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Third Quarter 1990 at ARCO 374, Oakland, CA AGS 60025-1	8/30/90	Applied GeoSystems
Letter Report on Purging and Sampling Tank Pit Monitoring Well at ARCO Station No. 374, Oakland, CA AGS 18039-4	1/5/89	Applied GeoSystems

REPORT

Work Plan, Supplemental Surface
Environmental Investigation at
ARCO Station 0374, Oakland, CA
AGS 018039-3W

DATE

9/11/88

CONSULTANT

Applied
GeoSystems

Report Environmental Investigation
Related to Underground Tank Removal
018039-2

8/1/88

Applied
Systems

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

6/15/88

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcatraz Property, Oakland, CA

5/27/86

AquaScience
Engineers

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

March 16, 1992
0309SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during February 1992, and site activities anticipated for the month of March 1992.

Status of Previous Months Activities:

February 1992: Continued offsite encroachment permitting for installation of offsite monitoring wells.

Anticipated Work to be performed in the Next Month:

- o Monthly groundwater monitoring.
- o Submit final Fourth Quarter 1991 Quarterly Groundwater Monitoring Report to governing regulatory agencies.
- o Submit an Interim Remedial Action Plan for interim soil and groundwater remediation at the above subject site.

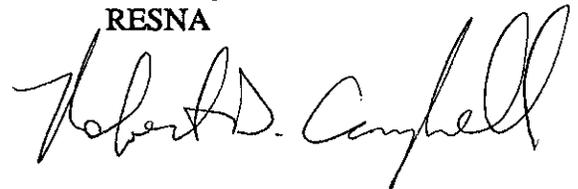
Site Status Update
ARCO Station 374, Oakland, California

March 16, 1992
61026.01

- o Proceed with completion and submission of an Authority-to-Construct/Permit-to-Operate Application to the Bay Area Air Quality Management District for installation of the proposed interim soil and groundwater remediation system.
- o Initiate work on a design/drawing package for the proposed interim soil and groundwater-remediation system. The package will consist of equipment specifications, D-size drawings of the site and remediation system layouts, trench and section details, process and instrumentation diagram, and a one-line electrical diagram.
- o Continue to seek encroachment permits to install offsite groundwater monitoring wells.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA



Robert D. Campbell
Staff Geologist



Joel Coffman
Project Geologist

cc: Mr. Chuck Carmel, ARCO Products Company

R078

ARCO Products Company,
a division of AtlanticRichfieldCompany

FACILITY NO. 374

**AMENDMENT TO LESSEE PMPA FRANCHISE AGREEMENT/DEALER/PREMISES LEASE
OPERATION OF UNDERGROUND STORAGE TANKS**

CALIFORNIA

This Amendment, dated Feb. 20, 1992, is attached to, incorporated in and made a part of the Lessee PMPA Franchise Agreement/Dealer/Premises Lease ("PMPA Agreement"), in effect as of the date of this Amendment or, if applicable, to become effective concurrently with this Amendment, between Atlantic Richfield Company, a Delaware Corporation, through its division ARCO Products Company, ("Franchisor") and SANTOSH KUMAR SUD ("Franchisee"), covering premises located at 6A07 TELEGRAPH AVE, OAKLAND, CA 94609

In return for good and valuable consideration, each party's receipt of which is hereby acknowledged, the parties agree as follows:

1. The parties have entered into this Amendment in accordance with legal requirements imposed on Franchisor and Franchisee concerning operation of the underground storage tanks at the above-referenced location.

2. Franchisor has provided Franchisee a copy of:

(a) California Health and Safety Code Section 25299 or an approved summary concerning civil and criminal penalties for violating terms of any permit to operate these underground storage tanks and relevant statutory and regulatory requirements.

(b) the following listed documents, a copy of which is attached and initialed by Franchisee:

Monitoring & Response Plan - I with Attachments

3. Where Franchisor has provided Franchisee with a copy of the permit to operate the underground storage tanks, Franchisee has read and understood it's responsibilities as operator under the permit and agrees to comply with each of the provisions of the permit. Irrespective of whether Franchisee has received and reviewed a copy of the underground storage tank operating permit, Franchisee hereby expressly agrees to do the following:

(a) monitor the underground tanks as required by law;

(b) maintain all required records and make such records available to the federal, state and local government agencies and to Franchisor at all reasonable times;

(c) follow all reporting procedures as required by law;

(d) mail, when submitted, to Franchisor, at the address specified in paragraph 1 of the PMPA Franchise Agreement/Dealer/Premises Lease, a copy of all reports submitted to government agencies;

(e) follow all operating procedures specified by Franchisor;

(f) immediately report to Franchisor all suspected or confirmed releases from the tanks and connected piping system, unusual operating conditions, release detection signals and environmental conditions suggesting a release may have occurred, and any spills and overfills that are not contained and cleaned up;

(g) properly close the underground tanks as required by law; and,

(h) comply with all federal, state and local legal requirements relevant to the operations of the underground tanks and all amendments to any permit to operate.

4. With respect to the operation of the underground storage tank system and monitoring equipment, Franchisee hereby acknowledges and agrees:

- that ARCO has provided Franchisee with training on each of the items described in the attached Monitoring and Response Plan,
- that Franchisee understood the content of the training, and asked any questions necessary to facilitate his understanding,
- that Franchisee indicated to ARCO at the time of training any subjects addressed by the training which Franchisee did not fully understand, and
- that Franchisee received complete training and information necessary for Franchisee to fully understand the subject of operating underground storage tanks.

5. Franchisor has provided Franchisee a copy of and Franchisee agrees to maintain on the Premises the Certificate of Financial Responsibility (as required by the United States Environmental Protection Agency in Subpart H, 40 CFR, Part 280 and California Health and Safety Code, Chapter 6.7, Section 25292.2).

6. Except to the extent they conflict with, or are less rigorous than the terms of this Amendment, all of the terms and conditions of the PMPA Agreement, as previously or hereafter amended or supplemented, remain in full force.

IN WITNESS WHEREOF, Franchisor and Franchisee have executed this Amendment.

WITNESS:

ARCO Products Company
a division of AtlanticRichfieldCompany
Franchisor

D.E.V.

By: J.C. Hogate
MANAGER

WITNESS:

SANTOSH K. SUD
FRANCHISEE'S NAME

D.E.V.

By: [Signature]

DATE: 2/10/92

MONITORING AND RESPONSE PLAN - I

ARCO PRODUCTS COMPANY FACILITY WITH SECONDARY CONTAINMENT OF UNDERGROUND STORAGE TANKS & PRODUCT LINES

ARCO Facility 374

Address 6407 TELEGRAPH AVE.
OAKLAND, CA

This plan is designed to meet the monitoring and response requirements of Section 2634, Article 3, Title 23, CCR.

1. MONITORING EQUIPMENT

Secondarily contained storage tanks and lines at this facility are monitored by a continuous electronic leak detection system which consists of an alarm panel, sensors and associated electronics. Liquid sensors are installed in the annular space of each double wall tank and product line piping sump. Whenever a sensor detects the presence of a liquid there is both a visual and audible alarm at the control panel.

Automatic line leak detectors are installed on the secondarily contained pressurized product piping. The line leak detector will detect a loss of pressure in the product lines and restrict the flow of product.

An annual tightness test will be performed on the product lines.

2. MAINTENANCE SCHEDULE OF MONITORING EQUIPMENT

The continuous electronic leak detection system including line leak detectors will be inspected according to the manufacturer's instructions by an outside contractor once during each calendar year.

3. ROUTINE MONITORING PROCEDURE

On a daily basis the facility operator shall:

- A. Inspect the control panel for visual and audible alarm signals to confirm that the unit is operating.
- B. Inspect island and tank fill areas for signs of spillage or petroleum sheen.
- C. Record the inspection observations on the Daily Visual Monitoring Log (Form APPC-765: attached.)

4. **RESPONSE PLAN**

OPERATOR RESPONSIBILITIES

A. **LEAK RECORDING AND REPORTING PROCEDURE**

Whenever an alarm is activated, station personnel are to immediately:

- a. Contact ARCO Maintenance or its designated agent by using the telephone number previously provided.
- b. If any visible indications of petroleum products or vapors are noticed call 911.
- c. Make an entry in the Recordable Discharge Log (Form APPC-765-1: attached) indicating the action taken.
- d. Complete the Recordable Discharge Log when and as the source of the alarm is known.

ARCO RESPONSIBILITIES

B. **METHOD OF REMOVING AN UNAUTHORIZED RELEASE FROM THE SECONDARY CONTAINMENT**

- a. Any unauthorized release into the secondary containment system of a product tank will be removed by pumping. Uncontaminated product may be returned to the tank. Contaminated product may be returned to the refinery to be recycled or may be disposed of following procedures in accordance with California Health and Safety Code requirements. In the event of an emergency, a pumping contractor or truck will be available immediately. In all other cases, equipment availability will be within 12 hours.

- b. ARCO Maintenance [REDACTED] will be responsible for authorizing and selecting contractors for the work to be performed.

5. **TRAINING**

In addition to the training covering subjects mentioned in Sections 3 and 4 above, training needed for the operation of the tank system and monitoring equipment includes:

How to:

- Take tank level measurements
- Read dispenser meters
- Inspect equipment
- Recognize warning signs: dispenser hesitations, meter spins and odors
- Manually close dispenser impact valve
- Replace dispenser filters

TRAINING CONTINUED

- Shut down the system with and location of: ARCOmatic switch, electrical panel breakers, and emergency shut off switch
- Test the electronic monitor

6. RECORDS RETENTION

Written records of all monitoring, testing, and maintenance performed shall be maintained on-site or off-site at a readily available location for a period of at least 3 years. These records must be made available, upon request within 36 hours, to the local agency or the Board.

7. PARTY RESPONSIBLE FOR PERFORMING THE MONITORING

S. SUP
Name

MGR / FRANCHISEE
Title

8. PARTY RESPONSIBLE FOR MAINTAINING EQUIPMENT

ARCO
Name

1 800 ARCO FIX
Title

ARCO facility no.		Dealer/Franchisee		Month/Year
Day	System condition		Inspector initials	Comments
	Operational	Alarm*		
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

***NOTE: IF ALARM CONDITION EXISTS IMMEDIATELY NOTIFY ARCO MAINTENANCE OR ITS AGENT DESIGNATED AND MAKE ENTRY ON ALARM ACTIVATION/DISCHARGE LOG**

**CALIFORNIA HEALTH AND SAFETY CODE DIVISION 20,
CHAPTER 6.7**

SECTION 25299

- (a) Any operator of an underground tank system shall be liable for a civil penalty of not less than five hundred dollars (\$500) or more than five thousand dollars (\$5,000) for each underground storage tank for each day of violation for any of the following violations:
- (1) Operating an underground tank system which has not been issued a permit, in violation of this chapter.
 - (2) Violation of any of the applicable requirements of the permit issued for the operation of the underground tank system.
 - (3) Failure to maintain records, as required by this chapter.
 - (4) Failure to report an unauthorized release, as required by Sections 25294 and 25295.
 - (5) Failure to properly close an underground tank system, as required by Section 25298.
 - (6) Violation of any applicable requirement of this chapter or any requirement of this chapter or any regulation adopted by the board pursuant to Section 25299.3
 - (7) Failure to permit inspection or to perform any monitoring, testing, or reporting required pursuant to Section 25288 or 25289.
 - (8) Making any false statement, representation, or certification in any application, record, report, or other document submitted or required to be maintained pursuant to this chapter.
- (b) Any owner of an underground tank system shall be liable for a civil penalty of not less than five hundred dollars (\$500) or more than five thousand dollars (\$5,000) per day for each underground storage tank, for each day of violation, for any of the following violations:
- (1) Failure to obtain a permit as specified by this chapter.
 - (2) Failure to repair or upgrade an underground tank system in accordance with this chapter.
 - (3) Abandonment or improper closure of any underground tank system subject to this chapter.
 - (4) Knowing failure to take reasonable and necessary steps to assure compliance with this chapter by the operator of an underground tank system.
 - (5) Violation of any applicable requirement of the permit issued for operation of the underground tank system.
 - (6) Violation of any applicable requirement of this chapter or any regulation adopted by the board pursuant to Section 25299.3.

- (7) Failure to permit inspection or to perform any monitoring, testing, or reporting required pursuant to Section 25288 or 25289.
- (8) Making any false statement, representation, or certification in any application, record, report, or other document submitted or required to be maintained pursuant to this chapter.
- (c) Any person who intentionally fails to notify the board or the local agency when required to do so by this chapter or who submits false information in a permit application, amendment, or renewal, pursuant to Section 25286, is liable for a civil penalty or not more than five thousand dollars (\$5,000) for each underground storage tank for which notification is not given or false information is submitted.
- (d) Any person who falsifies any monitoring records required by this chapter, or knowingly fails to report an unauthorized release, shall, upon conviction, be punished by a fine of not less than five thousand dollars (\$5,000) or more than ten thousand dollars (\$10,000), by imprisonment in the county jail for not to exceed one year, or by both that fine and imprisonment.
- (e) In determining both the civil and criminal penalties imposed pursuant to this section, the court shall consider all relevant circumstances, including, but not limited to, the extent of harm or potential harm caused by the violation, the nature of the violation and the period of time over which it occurred, the frequency of past violations, and the corrective action, if any, taken by the person who holds the permit.
- (f) Each civil penalty or criminal fine imposed pursuant to this section for any separate violation shall be separate, and in addition to, any other civil penalty or criminal fine imposed pursuant to this section or any other provision of law, and shall be paid to the treasury of the local agency or state, whichever is represented by the office of the city attorney, district attorney, or Attorney General bringing the action. All penalties or fines collected on behalf of the board or a regional board by the Attorney General shall be deposited in the State Water Pollution Cleanup and Abatement Account in the State Water Quality Control Fund, and are available for expenditure by the board, upon appropriation, pursuant to Section 13441 of the Water Code.
- (g) This section shall become operative on January 1, 1991. (Added by Stats. 1988, c. 296 Section 3, operative Jan. 1, 1991. Amended by Stats. 1989, c. 11397, Section 19, operative Jan. 1, 1991.)

ARCO Products Company
17315 Studebaker Road
Cerritos, California 90701-1488
Telephone 310 404 5300

Mailing Address: Box 6411
Artesia, California 90702-6411



92 MAR 25 11:11 AM

March 24, 1992

Susan Hugo
Alameda County Public Health Services
Hazardous Materials Section
80 Swan Way
Suite 200
Oakland, Ca. 94621

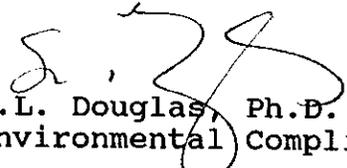
RE: Monitoring and Response Plan
Fac. Nos. 6148, 2035, and 374

Dear Ms. Hugo:

Please find enclosed a lease amendment and a Monitoring and Response Plan each for the above facilities. A copy of this Plan has been given to the respective Dealer for implementation.

Should you have any questions, please feel free to call me at (310) 407-2603.

Sincerely,


S.L. Douglas, Ph.D.
Environmental Compliance Administrator

SLD:me

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

February 14, 1992
0211SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during January 1992, and site activities anticipated for the month of February 1992.

Status of Previous Months Activities:

January 13, 1992: Submitted the draft Remedial Action Plan to ARCO for review.

January 19, 1992: Monthly groundwater monitoring was performed.

Anticipated Work to be performed in the Next Month:

- o Monthly groundwater monitoring will continue.
- o Submit final Fourth Quarter 1991 Quarterly Groundwater Monitoring Report to Regulatory Agencies.
- o Submit the final Remedial Action Plan for soil and groundwater remediation.
- o Proceed with completing an air permit application to install the proposed groundwater-extraction and treatment system.

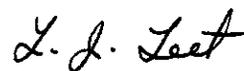
Site Status Update
ARCO Station 374, Oakland, California

February 14, 1992
61026.01

- o Initiate work on a design/drawing package for the proposed groundwater-extraction and treatment system. The package will consist of equipment specifications, D-size drawings of the site and remediation system layouts, trench and section details, process and instrumentation diagram, and a one-line electrical diagram.
- o Continue to seek encroachment permits to install offsite groundwater monitoring wells.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA



Lou Leet
Staff Geologist



Joel Coffman
Project Geologist

cc: Chuck Carmel, ARCO Products Company

CITY OF OAKLAND



CITY HALL • ONE CITY HALL PLAZA • OAKLAND, CALIFORNIA 94612

City Planning Commission

TTY 839-6451

January 28, 1992

Valli Voruganti Mylavarabhatla
Resha Industries, Inc.
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

RE: Appeal of Case File No.: D92-268; 6407 Telegraph Avenue.

Dear Ms. Mylavarabhatla:

On January 13, 1993, the City Planning Commission denied your appeal of three conditions of approval associated with an approved Design Review application to install an interim Soil and Groundwater Remediation Facility and relocate an existing storage trailer located at the ARCO gas station at 6407 Telegraph Avenue in the C-28 Commercial Shopping District Zone. The final conditions of approval, however, have been modified by the Commission and are enclosed.

The Planning Commission's decision becomes effective in ten (10) days from the date of the appeal decision, unless appealed to the City Council. An appeal is made by completing an application and paying the required fee.

If you have any questions, please contact Bill Quesada at (510) 238-6345.

Sincerely,

A handwritten signature in cursive script, appearing to read 'M. Banico'.

MARIA BANICO, Secretary
City Planning Commission

Attachment

FMC1 6D92268.BQ

CONDITIONS OF APPROVAL ATTACHED TO AND MADE PART OF ZONING CASE
FILE NO.: D92-268 .

1. That the project shall be constructed according to Scheme "A" depicted on page no. C-1A on the plans submitted on October 3, 1992 and as modified by the conditions below.
2. That revised plans incorporating the following changes be submitted for approval by the Director of City Planning prior to issuance of building permit:
 - a) That an eight foot high wood lattice fence, planted with creeping ivy-type plants, be constructed instead of the proposed 6 foot redwood slatted chain link fence around the remediation compound and all around the storage trailer.
 - b) That quick-growing, permanent buffer trees be planted along the north and west property lines as illustrated on the enclosed schematic drawing.
 - c) That a maximum exterior noise level of 60 decibels at the property line be maintained at all times.
3. That no other signs shall be installed without the approval of the Director of City Planning.
4. That street trees shall be provided by the applicant to the satisfaction of the Director of Parks and Recreation and installed prior to the finalization of the building permit.
5. That no trees shall be removed without the approval of the Director of Parks and Recreation.
6. That no grading shall occur without a valid grading permit issued by the Office of Public Works; and that all graded slopes be planted to prevent erosion.
7. That a landscape and irrigation plan, prepared by a licensed landscape architect or other qualified person shall be submitted for approval prior to the issuance of a building permit; that all landscaping shall be installed prior to the finalization of the building permit; and that all landscaping shall be permanently maintained.
8. That a copy of the approved Conditions of Approval be recorded with the Alameda County Recorder using the attached form or a form approved by the Director of City Planning; proof of such recordation shall be provided to the Director of City Planning prior to the issuance of a building permit.

CONDITIONS OF APPROVAL
CASE FILE: D92-268
Page -2-

9. That this approval shall terminate in one (1) year unless actual construction under valid permits commences; and that this may be extended upon application filed at any time prior to the expiration date.

ADOPTED BY: City Planning Commission: January 13, 1993 (date) - see modified conditions (vote)
City Council _____ (vote) _____ (date)

4 ayes, 2 noes - appeal denied

2D92268.BGX

January 14, 1992

92 JAN 15 PM 2:17

Mr. Edgar Howell
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

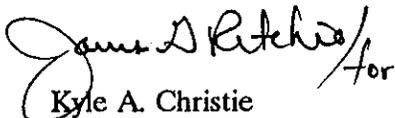
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1991; also included are projected site activities for the first quarter of 1992 and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

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

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

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

Sincerely yours,


for
Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report Quarterly Groundwater Monitoring, Third Quarter 1991 at ARCO Station 374, Oakland, CA 60025.02	11/21/91	RESNA
Letter Report Quarterly Ground-Water Monitoring, Second Quarter 1991 ARCO Station 374, Oakland, CA 60025.02	9/4/91	RESNA
Report of Pumping and Recovery Test Results 60025.04	7/31/91	RESNA/Applied GeoSystems
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation. AGS 60025.03	5/15/91	RESNA/Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, First Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-2	4/16/91	RESNA/Applied GeoSystems
Report on Limited Subsurface Environmental Investigation at ARCO Station 374, Oakland, CA. AGS 18039.03	3/27/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Fourth Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-1	3/26/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Third Quarter 1990 at ARCO 374, Oakland, CA AGS 60025-1	8/30/90	Applied GeoSystems
Letter Report on Purging and Sampling Tank Pit Monitoring Well at ARCO Station No. 374, Oakland, CA AGS 18039-4	1/5/89	Applied GeoSystems
Work Plan, Supplemental Subsurface Environmental Investigation at ARCO Station 0374, Oakland, CA AGS 018039-3W	9/11/88	Applied GeoSystems
Report Environmental Investigation Related to Underground Tank Removal 018039-2	8/1/88	Applied Systems

REPORT

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcrataz Property, Oakland, CA

DATE

6/15/88

5/27/86

CONSULTANT

Applied
GeoSystems

AquaScience
Engineers

92 JUN 15 AM 11:30

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

TRANSMITTAL

TO: MS. SUSAN HUGO
ACHCSA-DEH
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94624

DATE: 1/10/92
PROJECT NUMBER: 61026.01
SUBJECT: SEE BELOW

FROM: JOEL COFFMAN
TITLE: PROJECT GEOLOGIST

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
 Shop drawings Prints Reports Specifications
 Letters Change Orders _____

COPIES	DATED	NO.	DESCRIPTION
1 EACH	1/10/92		SITE STATUS UPDATE FOR ARCO STATIONS: 374, 771, 6113, AND 6148.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files _____

REMARKS: CC: CHUCK CARMEL, ARCO
KYLE CHRISTIE, ARCO

Copies: 1 to project file no. 61026.01

*Revision Date: 11/21/91
*File Name: TRANSMT.PRJ



A RESNA Company

RESNA

Working To Restore Nature

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

January 10, 1992
0107SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during December 1991, and site activities anticipated for the month of January 1992.

Status of Previous Months Activities:

December 9, 1991: Submitted completed Wastewater Discharge Permit Application to the East Bay Municipal Utility District (EBMUD) to allow for discharge to the sewer.

Anticipated Work to be performed in the Next Month:

- o Groundwater monitoring will continue.
- o Submit fourth quarter groundwater monitoring report.
- o Submit a Remedial Action Plan for soil and groundwater remediation.
- o Proceed with completing an air permit application to install the proposed groundwater-extraction and treatment system.



A RESNA Company

RESNA

Working To Restore Nature

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

January 10, 1992
0107SHUG.6148
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 6148, 5131 Shattuck Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during December 1991, and site activities anticipated for the month of January 1992.

Status of Previous Months Activities:

- December 11, 1991: RESNA obtained verbal approval from Susan Hugo of the Alameda County Health Care Services Agency (ACHCSA) to proceed with proposed work presented in Addendum to Work Plan.
- December 16, 1991: Received confirmation letter from Susan Hugo concerning Addendum to Work Plan approval and schedule.
- December 19-20, 1991: Drilled four borings (B-1 through B-4) and installed three monitoring wells (MW-1 through MW-3) in borings B-1 through B-3.
- December 23, 1991: Developed Monitoring wells MW-1 through MW-3.



A RESNA Company

RESNA

Working To Restore Nature

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

January 10, 1992
0107SHUG.6113
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 6113, 785 East Stanley Blvd.,
Livermore, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during December 1991, and site activities anticipated for the month of January 1992.

Status of Previous Months Activities:

December 1991: Work Plan Submitted On October 21, 1991; all proposed work is pending upon approval from the Alameda County Health Care Services Agency (ACHCSA).

Anticipated Work to be performed in the Next Month:

- o Groundwater monitoring will continue.
- o Upon ACHCSA approval of the work plan, submitted on October 21, 1991, will proceed with additional environmental assessment work. }

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

January 10, 1992
0107SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during December 1991, and site activities anticipated for the month of January 1992.

Status of Previous Months Activities:

December 9, 1991: Submitted completed Wastewater Discharge Permit Application to the East Bay Municipal Utility District (EBMUD) to allow for discharge to the sewer.

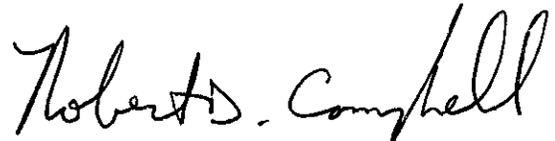
Anticipated Work to be performed in the Next Month:

- o Groundwater monitoring will continue.
- o Submit fourth quarter groundwater monitoring report.
- o Submit a Remedial Action Plan for soil and groundwater remediation.
- o Proceed with completing an air permit application to install the proposed groundwater-extraction and treatment system.

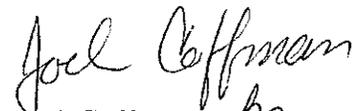
- o Proceed with working on a design/drawing package for the proposed groundwater-extraction and treatment system. The package will consist of equipment specifications, D-size drawings of the site and remediation system layouts, trench and section details, process and instrumentation diagram, and a one-line electrical diagram.
- o Initiate bid package preparation to install the proposed groundwater-extraction and treatment system.
- o Continue to seek encroachment permits to install offsite groundwater monitoring wells.

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA



Robert D. Campbell
Staff Geologist



Joel Coffman
Project Geologist

SA

UST LEAK Date of Last Current
SITE UPDATE Review/Update September 6, 1991 Date January 6, 1992

SITE IDENTIFICATION

Name ARCO Service Station 374 Case No. _____
Address 6407 Telegraph Avenue
Street Number Street
Oakland 94609
City ZIP Code
County Alameda Substance Gasoline
Local Agency Alameda County Health Care Services Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON ACHCSA-Larry Seto

CASE TYPE

Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)

<input type="checkbox"/> No Action Taken	Date	_____
<input checked="" type="checkbox"/> Leak Being Confirmed	Date	<u>5/86</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date	<u>9/11/88</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Underway	Date	<u>12/88</u>
<input checked="" type="checkbox"/> Pollution Characterization	Date	<u>4/91</u>
<input checked="" type="checkbox"/> Remediation Plan	Date	<u>7/91</u>
<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	_____

COMMENTS/MILESTONES:

USTs and product lines replaced in June 1988. EBMUD Wastewater Permit Application submitted December 1991. RAP to BAAQMD permit application in process. Proposal to design and permit a groundwater remediation systems submitted on 10/31/91.

RECENT ACTIVITIES/FINDINGS:

Last Quarter Activities: Pump test performed on 4/25/91 to evaluate future remediation; report submitted 7/31/91. Work Plan and Addendum One for subsurface investigations and remediation submitted 5/15/91. Initiated encroachment process for offsite wells. Perform quarterly groundwater monitoring and reporting.

Current Quarter Activities: Submitted EBMUD permit application. Perform quarterly groundwater monitoring and reporting. Performed offsite groundwater investigation; initiated design of interim groundwater treatment system. Researched groundwater discharge options.

ANTICIPATED ACTIVITIES:

Next Quarter Activities: ARCO to perform quarterly groundwater monitoring, initiate and design groundwater extraction and treatment system; and prepare quarterly groundwater monitoring report.

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

REPORT

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

DATE

6/15/88

CONSULTANT

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcatraz Property, Oakland, CA

5/27/86

AquaScience
Engineers



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

December 9, 1991
1023SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during November 1991, and site activities anticipated for the month of December 1991.

Status of Previous Months Activities:

- November 12, 1991: Initiated record research to identify potential offsite sources of hydrocarbons detected in soil and groundwater beneath the site.
- November 18, 1991: Began working on Remedial Action Plan (RAP) for groundwater remediation.
- November 20, 1991: Received from ARCO a Task Order to proceed with design and permit a groundwater recovery system.
- November 21, 1991: Performed fourth quarter 1991 monitoring and sampling. Wells were sampled for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons sa gasoline (TPHg), bioassay, and metals.
- November 22, 1991: Submitted a final copy of Third Quarter 1991 Groundwater Monitoring Letter Report to ARCO and governing agencies.

Submitted to ARCO a letter confirming a change of scope of design and permitting of a remediation system due to the addition of a two-well vapor-extraction system to the planned diffused aeration tank as discussed in telephone conversation on November 22, 1991.

November 27, 1991: Purge water generated during fourth quarter monitoring and sampling event was removed from the site by H&H Shipping Company.

Anticipated Work to be performed in the Next Month:

- o Continue groundwater monitoring and sampling program for this site.
- o Submit fourth quarter groundwater monitoring report.
- o Submit to East Bay Municipal Utility District (EBMUD) a completed Wastewater Discharge Permit Application to allow for discharge to the sewer.
- o Proceed with completing an air permit application to install the proposed groundwater-extraction and treatment system.
- o Proceed with working on a design/drawing package for the proposed groundwater-extraction and treatment system. The package will consist of equipment specifications, D-size drawings of the site and remediation system layouts, trench and section details, process and instrumentation diagram, and a one-line electrical diagram.
- o Initiate bid package preparation to install the proposed groundwater-extraction and treatment system.
- o Continue to seek encroachment permits to install offsite groundwater monitoring wells.

Site Status Update
ARCO Station No. 374, Oakland, California

December 9, 1991
61026.01

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA

Barbara Sieminski

Barbara Sieminski
Staff Geologist

Joel Coffman
Joel Coffman
Project Geologist



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

November 15, 1991
1023SHUG.374
61026.01

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94624

Subject: Site Status Update for ARCO Station 374, 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter provides an update on investigation and remedial activities conducted for the above-referenced site. This update covers site activities performed during August 1991 through October 1991, and site activities anticipated for the month of November 1991.

Status of Previous Months Activities:

- August 9, 1991:** Conducted monthly monitoring of groundwater monitoring wells to determine depth-to-water in each well.
- August 16, 1991:** Received a letter from Alameda County Health Care Services Agency (ACHCSA) indicating that the proposed off-site monitoring well MW-5 is acceptable but however will not be enough to delineate the extent of offsite hydrocarbon-impacted groundwater. This letter was in response to Addendum One to Work Plan submitted to ACHSCA on May 15, 1991.
- September 4, 1991:** Submitted Final Second Quarter Groundwater Monitoring Report.
- September 16, 1991:** Submitted letter of response to ACHCSA.

September 25, 1991: Performed third quarter 1991 quarterly groundwater monitoring and sampling. All wells were sampled for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH)-as-gasoline.

October 14, 1991: Initiated compiling all necessary information to obtain a wastewater discharge permit to the sewer from East Bay Municipal Utility District (EBMUD).

Anticipated Work to be performed in the Next Month:

- o Continue groundwater monitoring and sampling program for this site.
- o Submit third quarter groundwater monitoring report.
- o Submit to EBMUD a completed Wastewater Discharge Permit Application to allow for discharge to the sewer.
- o Initiate and complete if necessary an air permit application to install the proposed groundwater-extraction and treatment system.
- o Initiate worksteps to proceed with generating a design/drawing package for the proposed groundwater-extraction and treatment system. The package will consist of equipment specifications, D-size drawings of the site and remediation system layouts, trench and section details, process and instrumentation diagram, and a one-line electrical diagram.
- o Initiate bid package preparation to install the proposed groundwater-extraction and treatment system.
- o Continue to seek encroachment permits to install offsite groundwater monitoring wells.

Site Status Update
Arco Station No. 374, Oakland, California

November 15, 1991
61026.01

If you have any questions or comments regarding this letter, please call us at (408) 264-7723.

Sincerely,
RESNA



Valli Voruganti
Project Engineer



Joel Coffman
Project Geologist

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

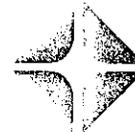
Arco Facility #6002
6235 Seminary Ave.
Oakland

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 SEROY	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

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report Quarterly Ground-Water Monitoring, Second Quarter 1991 ARCO Station 374, Oakland, CA 60025.02	9/4/91	RESNA
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation. AGS 60025.03	5/15/91	RESNA/Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, First Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-2	4/16/91	RESNA/Applied GeoSystems
Report on Limited Subsurface Environmental Investigation at ARCO Station 374, Oakland, CA. AGS 18039.03	3/27/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Fourth Quarter 1991 at ARCO 374, Oakland, CA AGS 60025-1	3/26/91	Applied GeoSystems
Letter Report on Quarterly Ground-Water Monitoring, Third Quarter 1990 at ARCO 374, Oakland, CA AGS 60025-1	8/30/90	Applied GeoSystems
Letter Report on Purging and Sampling Tank Pit Monitoring Well at ARCO Station No. 374, Oakland, CA AGS 18039-4	1/5/89	Applied GeoSystems
Limited Environmental Site Assessment at ARCO 374, Oakland, CA AGS 18039-1	6/15/88	Applied GeoSystems
Work Plan, Supplemental Subsurface Environmental Investigation at ARCO Station 0374, Oakland, CA AGS 018039-3W	9/11/88	Applied GeoSystems
Report Soil and Water Sampling and Determination of Hydrocarbon Contamination from Tank Removal at the Telegraph and Alcatraz Property, Oakland, CA	5/27/86	AquaScience Engineers

91 OCT 18 AM 9:27

October 9, 1991

Ms. Dana Weiss
RESNA
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

Dear Ms. Weiss:

Re: Groundwater Permit Information and Procedures

Thank you for your inquiry regarding discharge of groundwater to the EBMUD Wastewater Treatment Plant from soil and groundwater remediation activities at Arco Station #374, located at 6407 Telegraph Avenue, Oakland, and Arco Station #2107, located at 3310 Park Boulevard, Oakland.

At Arco Station #374, four underground gasoline storage tanks were removed: one 8,000 gallon, one 6,000 gallon, and two 4,000 gallon tanks. One 550 gallon waste oil and three 10,000 gallon gasoline underground storage tanks were removed from Arco Station #2107.

Enclosed is the following information on EBMUD groundwater permits and procedures for your evaluation:

- o Groundwater Permit Information.
- o EBMUD Ordinance No. 311.
- o EBMUD Resolution No. 32500.
- o Wastewater Discharge Permit application forms.
- o Standard Provisions and Reporting Requirements, 05/91 revision.
- o Influent and Effluent Toxics Summary 1990.

Ms. Dana Weiss
October 9, 1991
Page 2

Transmittal of this information to you does not constitute permission to discharge groundwater to the sanitary sewer.

Should you have any additional questions, please contact me at (510) 287-1630.

Sincerely,



THOMAS C. PAULSON
Industrial Discharger Section Supervisor
Source Control Division

TCP:CAC:cac

Enclosures

cc: Rafat Shahid, Alameda County Health Care Services Agency
Lester Feldman, Regional Water Quality Control Board

GROUNDWATER PERMIT INFORMATION

EBMUD will require the discharge to be monitored by both the District and the discharger for compliance. The required monitoring frequency reflects the following factors:

- o Concentration of pollutants in the groundwater;
- o Design capacity of treatment unit;
- o Level of preventive maintenance;
- o Frequency of process control samples from the various treatment stages;
- o Consistent compliance with discharge limits;
- o Treatment systems relying on carbon adsorption must collect influent BTEX samples and use that information to continually update the estimated remaining carbon capacity.

The District will charge various fees for providing this service. These fees include:

- o Monitoring charges based on the District's current fee schedule;
- o The treatment charge for CARBON treated effluent effective July 1, 1991 is:

$$(0.273 \text{ \$/Ccf} + 0.00624(15 \text{ mg/l} * 0.103 \text{ \$/lb.} + 2 \text{ mg/l} * 0.172 \text{ \$/lb.})) \\ = 0.28 \text{ \$/Ccf};$$

- o The capacity fee for CARBON treated effluent effective July 1, 1991 is:

$$(43.26 \text{ \$/Ccf/mo} + 0.00624(15 \text{ mg/l} * 7.87 \text{ \$/lb./mo} + 2 \text{ mg/l} * 17.50 \text{ \$/lb./mo})) \\ = 44.22 \text{ \$/Ccf/month};$$

- o A \$2,000 Permit fee must accompany the application;
- o Applications should be submitted to:

EBMUD Mail Slot #702
P. O. Box 24055
Oakland, CA 94623-1055
Attention: Tom Paulson
Phone: (415)287-1630

C4

ACTIVITIES	1991			1992					1993					1994																								
	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
1) Onsite Subsurface Investigation	COMPLETED																																					
1a) Aquifer Testing	COMPLETED																																					
2) Offsite Groundwater Investigation	[Gantt bar: Oct 1991 - Oct 1992]																																					
3) Remedial Action Plan	[Gantt bar: Nov 1991 - Dec 1991]																																					
4) Preliminary and Detailed Engineering Design	[Gantt bar: Nov 1991 - Dec 1991]																																					
5) Soil and Groundwater Remediation Permitting	[Gantt bar: Nov 1991 - Dec 1991]																																					
6) Equipment Selection and Procurement (Including Bid Package Preparation and Selection)	[Gantt bar: May 1992 - Jun 1992]																																					
7) System Construction and Startup: Soil and Groundwater	[Gantt bar: Oct 1992 - Nov 1992]																																					
8) Soil Remediation System Operation and Maintenance (1 year)	[Gantt bar: Dec 1992 - Dec 1993]																																					
8a) Groundwater Remediation System: Operation and Maintenance (3 to 6 years)	[Gantt bar: Dec 1992 - Dec 1998]																																					
9) Performance Evaluation	[Gantt bar: Dec 1992 - Dec 1993]																																					
10) System Shut Down: Soil Remediation	[Gantt bar: Dec 1993 - Dec 1994]																																					
11) System Shut Down: Groundwater Remediation (Begin One Year Verification Monitoring)	[Gantt bar: Dec 1993 - Dec 1994]																																					
12) Site Closure: Soil and Groundwater (1 year)	[Gantt bar: Dec 1993 - Dec 1994]																																					
EXPLANATION:	Projected schedule based on current deadlines and reasonable time necessary to complete the task. Assumes no delays.															Estimated schedule based on consultant's and other approval on time, and on...																						

- 1 and 1a) Onsite Subsurface Investigation:**
- Aquifer testing completed prior to October 1991.
 - Preliminary onsite investigations were completed prior to October 1991
- 2) Offsite Groundwater Investigation:**
- A workplan for offsite investigation was submitted to regulatory agencies in May 1991
 - The workplan has been approved; however, offsite access permits have not yet been approved by the City of Oakland
 - The approval process is anticipated to take an additional four to six months
 - The proposed offsite wells will delineate the offsite hydrocarbon plume.
- 3) Remedial Action Plan:**
- It is anticipated that the ACHCSA can review and approve the workplan in one month.
 - No workplan revisions are necessary
 - No changes to design after regulatory comments
 - Results of offsite investigation will not impact remediation schedule.
 - Aquifer test results indicate that a one well extraction and groundwater remediation system will be adequate to capture the onsite hydrocarbon plume.

- 4) Preliminary and Detailed Engineering Design:**
- Soil and groundwater remediation design basis from pre-1992 data
 - Only onsite remediation needed
- 5) Permitting (Soil and Groundwater):**
- It is anticipated that permitting can be completed within 4 to 5 months
 - No design changes necessitating additional permitting, including modification of treatment system
- 6) Equipment Selection and Procurement:**
- All equipment is available from stock up to 4 to 6 weeks
 - Selected equipment approved by ACHCSA
- 7) System Construction and Startup:**
- No delays due to weather
 - No delays due to negotiation with property owners
 - No delays due to utility installation
- 8 and 8a) System Operation and Maintenance:**
- It is anticipated that groundwater remediation can be completed within 3 to 6 years
 - It is technically feasible to achieve cleanup levels
 - No offsite remediation will be necessary
 - No significant equipment breakdowns

- 9) Performance Evaluation:**
- Evaluation shows soil and groundwater significantly over
 - Evaluation shows not required to system is open
- 10) Shut Down:**
- Cleanup will
- 11) Shut Down:**
- Cleanup will
 - Only one yr before site
- 12) Site Closure:**
- Requirements and performance
 - Requirements and performance
 - Closure complete
 - No risk

Note:
levels

RESNA

61078.01

REVISION: 1
DATE: 1/15/92

ESTIMATED SOIL AND GROUNDWATER REMEDIATION IMPLEMENTATION
ARCO Station 374
6407 Telegraph Avenue
Oakland, California

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

EXPLANATION TO ARCO 374 REMEDIAL ACTION SCHEDULE

1). ONSITE SUBSURFACE INVESTIGATION

Preliminary investigations were completed prior to October 1991.

1a). Aquifer Testing

An aquifer pump test was performed in April 1991 and results of the aquifer pump test were summarized in the July 31, 1991 report.

2). OFFSITE GROUNDWATER INVESTIGATION

A workplan for offsite investigations was completed and submitted for the Regional Water Quality Control Board (RWQCB) and the Alameda County Health Care Services Agency (ACHCSA) review on May 15, 1991. Since July 1991, the proposed offsite investigation is pending an encroachment permit approval from the City of Oakland for well installation along Alcatraz Avenue right-of-way. The encroachment process is anticipated to take an additional four to six months. The proposed well(s) will delineate the extent of the offsite hydrocarbon plume.

Due to the presence of many utility lines, both underground and above-ground along Alcatraz Avenue, installation of proposed offsite well(s) may require obtaining private property owner's permission for placement of wells off the streets entirely. This gaining of offsite access will be initiated concurrent to the currently ongoing encroachment process with the City of Oakland.

3). REMEDIAL ACTION PLAN

The aquifer test conducted in 1991 indicated a groundwater extraction rate of less than 0.5 gallons per minute (gpm) could be sustained from the aquifer after the former underground storage tank pit is pumped down to reflect the aquifer recharge rate. The test results will be used to facilitate groundwater treatment system design.

(oil-water separators, aeration tanks, carbon (vapor phase), air strippers, and thermal or catalytic oxidizers); and a Wastewater Discharge Permit from the RWQCB or the local Publicly Owned Treatment Works (POTW) for discharge of treated effluent from the proposed groundwater remediation system to the storm drain or local City sewer.

The air and wastewater discharge permit applications can be sent when the soil and groundwater remediation equipment has been identified during preliminary design. The governing Air Board has 60 days to issue the permit (Authority to Construct) or request additional information. If a resubmission of the permit application is required, there will be an additional delay of up to 30 days. Once operation of the remediation system has been initiated, a letter requesting a Permit to Operate is sent to the Air Board. The permit is received with 60 days, although the system can be in operation during this time. Since vapor-phase carbon is the anticipated vapor abatement unit for this site, an environmental permit will be required from the Air Board.

Based on aquifer testing data, the average and maximum expected groundwater extraction flow rates and influent hydrocarbon concentrations will be determined. If the local POTW will accept treated effluent water from the groundwater remediation system, a wastewater discharge permit will generally be granted within 30 days of submittal of the completed permit application. Communications are less formal than with the RWQCB and questions, comments, and additional requirements can usually be handled by telephone or fax without significant delays.

However, if the local POTW will not accept the discharge, a National Pollutant Discharge Elimination System (NPDES) permit from the RWQCB will be required. For cleanups at service stations, the RWQCB has initiated an NPDES permit program where a permit application can be approved within three to four months of submission. An encroachment permit from the City will also be required for sites where groundwater discharge goes to a storm drain in the City right of way.

Planning and building permits include submission of the complete set of Plans and Specifications to the local City Planning Building and Fire Departments for approval, prior to construction and installation of proposed remediation systems. These permits are typically granted within 30 days of receipt of the Plans and Specifications.

Questions, comments and additional requirements are usually handled informally by visits, telephone, or fax. A Hazardous Materials Management Plan (HMMP) is required to be submitted to the City Hazmat Department or Fire Department if hazardous materials are to be stored on site (such as oil-water separators and above

ground product storage tanks). This is submitted at the same time the building permit is applied for if necessary, and should be approved within the 30-day time frame.

The permitting schedule assumes that permitting can be completed within four to six months, provided encroachment permission, if required, is not delayed, and agencies do not require design changes which necessitate additional permitting.

6). **EQUIPMENT SELECTION AND PROCUREMENT**

After engineering design is completed, a bid package will be prepared for submittal to construction contractors (a minimum of three). Contractor bids will be evaluated and a contractor shall be selected within one week of receiving the bids. Our consultant will then provide ARCO with an equipment list. ARCO orders equipment directly from the vendor. The schedule assumes that all equipment is available and can be delivered within four weeks, and that involved regulatory agencies approve of selected equipment.

7). **SYSTEM CONSTRUCTION AND STARTUP**

Upon approval of the RAP, having secured local City Building, Fire, and Planning permit(s), after equipment procurement, and on selection of a general contractor, systems installation will commence in accordance with the approval Plans and Specifications.

System installation will include: construction of utility trenches to contain all necessary water, vapor, and electrical lines; installation of necessary underground pipes and electrical conduits to and from the proposed remediation compound; pressure testing lines for leaks; City inspection of utility trenches prior to closure; construction of the remediation compound; electrical service and sewer hookups; and installation and plumbing of all soil and groundwater remediation equipment.

The schedule assumes that construction will not be delayed by inclement weather, negotiations with lessor, and delays in utility installation.

After completion of system installation, operation of the proposed soil and groundwater remediation system will be initiated in compliance with all applicable regulatory agencies. Startup procedures will include daily system monitoring, maintenance, sampling, analysis of system influent and effluent as required by the site specific environmental permits.

8). **SYSTEM OPERATION AND MAINTENANCE**

Systems operation and maintenance includes: site visits once every week of the first month; once every two weeks for the next month; and monthly visits for the remainder of the life of the remediation system. Site inspections will include: monitoring and adjustment of system parameters to optimize soil and groundwater remediation system efficiencies; periodic sampling and analysis of influent and effluent to the remediation systems as required by the environmental permits; other periodic maintenance procedures including inspection and cleaning of all lines, process equipment, etc.; and monthly (or as required), reporting of results of systems operations to involved regulatory agencies.

The schedule assumes that soil remediation can be completed in one year, groundwater remediation can be completed within three to six years, it is technically feasible to achieve State cleanup levels, no offsite wells are needed to complete remediation; and no significant equipment breakdowns occur.

The progress and expected duration of the soil and groundwater cleanup is dependent on physical and chemical factors such as: fluctuating groundwater levels both naturally and/or artificially induced (pumping of other wells near the site), and the correlation of data from specific points (wells and borings) with the actual conditions across the site. Variations in site geology and transmissivity of the aquifer may have an affect on the groundwater remediation schedule. Chemical factors such as the absorption potential of gasoline to soil can also affect the schedule for soil remediation. Duration of cleanup can be more accurately predicated after a performance evaluation on the system has been completed.

9). **PERFORMANCE EVALUATION**

Yielded well capture zones, vapor extraction flow rates, radius of influence, influent and effluent analytical data are reviewed to evaluate the efficiencies of the soil and groundwater remediation systems. On the basis of this evaluation, it may be necessary to add new vapor or groundwater extraction wells and/or adjust treatment system parameters. Additional wells may be desirable if the yielded zones of capture do not overlap to provide additional removal capability and/or to cost effectively speed up site cleanup.

The schedule assumes that the performance evaluation will show that the remediation system(s) will effectively remove hydrocarbons from areas of impacted soil and groundwater and will reduce extracted concentrations significantly over time. It also assumes that additional on or offsite vapor and groundwater extraction wells

are not required to effectively remediate impacted areas, once the treatment system is operational.

10). SYSTEM SHUTDOWN: SOIL REMEDIATION SYSTEM

Based on our consultant's experience, hydrocarbons concentrations in the soil can be significantly reduced to currently known State cleanup levels at most sites in approximately one year. After reviewing historical soil-vapor data collected from the extraction wells during system operation, the remediation system will be shut down after agency concurrence.

11). SYSTEM SHUTDOWN: GROUNDWATER REMEDIATION SYSTEM. BEGIN ONE-YEAR VERIFICATION MONITORING

The groundwater remediation system will be shut down when analytical data from impacted wells show that hydrocarbon concentrations have been reduced significantly and are below currently known agency-prescribed cleanup levels and after agency concurrence. Based on current regulations, the groundwater must be monitored for a minimum of one year to verify cleanup, prior to applying for site closure.

The schedule assumes that cleanup will be completed three to six years after startup and only one year of verification monitoring is required.

12). SITE CLOSURE

Site closure is typically granted after an extensive RWQCB review of all historical data at the site. Closure involves cleanup of both soil and groundwater and is not addressed independently. To verify cleanup of previously impacted soil, verification borings will be drilled and samples collected and analyzed to shown that the soil has been remediated below State cleanup levels. To verify groundwater cleanup, verification monitoring data will be reviewed.

The schedule assumes that site closure involves only drilling of confirmation borings, confirmation of verification monitoring data and that no risk assessment will be required. It also assumes that site closure is dependent on agency concurrence within one year following completion of verification monitoring.

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



September 16, 1991

91 SEP 16 11 11 AM '91

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

Subject: Alameda County Health Care Services Agency letter regarding ARCO Station 374 at 6407 Telegraph Avenue, Oakland, California.

Dear Ms. Hugo:

This letter is submitted in response to your letter dated August 16, 1991 concerning the review of the RESNA/Applied GeoSystems Work Plan and the Addendum One to Work Plan for Subsurface Investigation and Remediation at ARCO Station 374 submitted May 15, 1991 by RESNA/Applied GeoSystems. The responses to your letter are presented in the order in which they appear in your letter.

* To date, acceptable definition of the ground-water contaminant plume has not been accomplished. The ground-water pollution plume has migrated offsite in the down-gradient direction. The proposed installation of one additional ground-water monitoring well (MW-5) is acceptable. However, more wells must be installed if ground-water monitoring well MW-5 is inadequate in defining the extent of the ground-water contaminant plume.

This installation of MW-5 is currently being pursued and is dependent upon the City of Oakland granting encroachment permits for the well installation. Exact location of well MW-5 and of any future wells is limited in this area by overhead and underground utility lines and the fact City of Oakland no longer permits sidewalk installation of monitoring wells. As necessary, depending upon the laboratory analytical results of ground water collected from MW-5, ARCO will pursue placement of additional offsite monitoring wells for further delineation.

* 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

September 16, 1991

gasoline, TPH diesel, and BTEX 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 but must occur at least quarterly. Before each sampling event is begun, free product thickness and water level must be determined.

The method of ground-water sampling is referenced in the above-referenced Work Plan Appendix A, page A5. Free product will be removed from wells as needed. A pump test was performed at the site and results reported in the Report of Pumping and Recovery Test Results at ARCO Station 374 (RESNA Applied/GeoSystems, July 18, 1991). Results of this aquifer test show very low transmissivity rates within the aquifer. Since this site has been monitored on a quarterly basis since July 1989, and with the low rate of transmissivity, ARCO proposes that the monitoring wells be monitored quarterly as the proposed three month consecutive sampling would not provide any additional information to water quality that would ultimately be collected over the period of one calendar year. Sampling all monitoring wells for TPH diesel is not warranted but ARCO proposes to sample the monitoring well located next to the former underground storage tank location for TPH diesel and to discontinue this analysis if TPH diesel is found to be below laboratory detection limits.

- * The ground-water contaminant plume has migrated offsite in the down-gradient direction. A remediation plan must be implemented to contain the ground-water pollution plume from further migration offsite. The overall effectiveness of the remediation system should be verified by an appropriate monitoring program. The remediation plan must include a time schedule for plan implementation and the expedient removal of any free product at the site. Free product must be monitored and the actual amount should be tabulated.

At this time, ARCO is currently evaluating remedial options at the site and has initiated the NPDES permitting process for future discharge of treated ground water recovered from the site. Free product has not been encountered in wells at the site in recent sampling events.

- * Permit requirements from other regulatory agencies which are applicable to the remediation system must be followed.

This will be strictly adhered to by ARCO Products Company and their consulting companies. Abiding with City of Oakland Encroachment Permitting procedures has been a major source of delay with this and many City of Oakland sites.

Response to ACHCSA letter to ARCO dated 8-16-91
ARCO Station 374, Oakland, California

September 16, 1991

- * The manifest for the four underground storage tanks which were removed in June 1988 or the bill of lading for any contaminated soil hauled offsite have not been received by this department.

Attached to this letter are the manifest forms for all soils hauled from the site as hazardous waste and documentation from American Metal Recycling Inc. located in Ontario, California showing receipt of the four underground gasoline-storage tanks for recycling purposes. It is ARCO's understanding of the prevalent regulatory enforcement guidelines for Oakland and Alameda County at the time, hazardous manifests forms were not required for the tanks. This is the first request for these manifests.

Quarterly monitoring and sampling is continuing at the site with reports being issued in a timely fashion. A report of monitoring well (MW-5) installation will be produced once encroachment permits are obtained and the installation can proceed.

If you have any questions or comments, please contact me at your earliest convenience.

Sincerely,



Chuck Carmel
Environmental Engineer

cc: Mr. John Meck, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mark Thompson, Alameda County District Attorney's Office
Lester Feldman, San Francisco Bay RWQCB
Mr. Howard Hatayama, State Department of Health Services
Joel Coffman, RESNA/Applied GeoSystems (San Jose Office)

SEP 13 '91 2107 PLACER TRACTOR SERV. AMERICAN FUEL TANK



No. 27325

TANK DISPOSAL FORM

2202 South Milliken Avenue
Ontario, CA 91761
(714) 947-2888

Date: 6-10-1988
Job #
P.O. #

CONTRACTOR: PLACER TRACTOR SERVICE
 ADDRESS: 7200 WELLS AVE LAGUNA CA 92650
 JOB SITE: ARCO AMPM
 ADDRESS: 6407 TELEGRAPH OAKLAND CA
 DESTINATION: A.M.R. 2202 S. Milliken Ave., Ontario, CA 91761

DATE	TIME	PROJECTED TANKS	ORDERED BY	LIC NO.
------	------	-----------------	------------	---------

SPECIAL INSTRUCTIONS: _____
 TIME IN: _____
 TIME OUT: _____

Services Rendered	Cost	QTY.	TANKS RECEIVED GALLONS	TYPE F-S*	NET TONS	TOTAL
Disposal Fee	100.00		280		.14	
Extensive Loading Time	150.00		500		.21	
Disposal Fee with Permit	250.00		550		.24	
Fiberglass Tank Disposal Fee Per Tank	400.00		1000 - 12 ft.		.44	
Delivered	200.00		1000 - 8 ft.		.61	
Bobtail Disposal Fee	250.00		1500		.87	
Cancellation Fee <u>DELIVERED</u>	250.00		2000		.87	
			2500		1.14	
			3000		1.32	
			4000		1.64	1.64
			5000		2.42	2.94
			6000		2.64	
			7500		3.26	
			8000		3.44	
			9000		3.62	
			10000		4.35	
			12000		4.93	
TOTAL CHARGES	\$ 9					

All fees incurred are per load unless specified. Terms are net 30 days from date of invoice. Contractor's signature represents acceptance of terms for payment, and confirms that tank removal complies with State laws.

NO. OF TANKS: 2 TOTAL NET TONS: 4.48
 *F - FIBERGLASS *S - STEEL 105

CONTRACTOR'S SIGNATURE _____

CERTIFICATE OF TANK DISPOSAL / DESTRUCTION
THIS IS TO CERTIFY THE RECEIPT AND ACCEPTANCE OF THE TANK(S) AS SPECIFIED ABOVE. ALL MATERIALS SPECIFIED HAVE BEEN COMPLETELY DESTROYED FOR SCRAP PURPOSES ONLY.

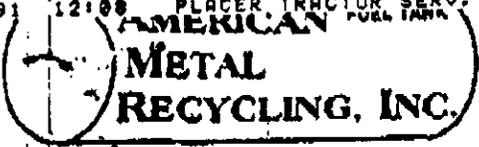
Chris Ramsey
AUTHORIZED REP.

6-10-88
DATE

CONTRACTOR COPY

SEP 13 '91 12:08

PLACER TRACTOR SERV. FUEL TANK



2202 South Milliken Avenue
Ontario, CA 91761
(714) 947-2888

P. 03
No. 27329

TANK DISPOSAL FORM

Date: 6-11-1988
Job #
P. O. #

CONTRACTOR: PLACER TRACTOR SERVICE
 ADDRESS: 7200 WELLS AVE LOMAS CA 95050
 JOB SITE: ARCO
 ADDRESS: 7607 TELEGRAPH OAKLAND CA
 DESTINATION: A.M.R. 2202 S. Milliken Ave., Ontario, CA 91761

DATE	TIME	PROJECTED TANKS	ORDERED BY:	LIC. NO.
------	------	-----------------	-------------	----------

SPECIAL INSTRUCTIONS: _____
 TIME IN: _____
 TIME OUT: _____

Services Rendered	Cost
Disposal Fee	100.00
Extensive Loading Time	150.00
Disposal Fee with Permit	250.00
Fiberglass Tank Disposal Fee Per Tank	400.00
Delivered	200.00
Bobtail Disposal Fee	250.00
Cancellation Fee <u>DELIVERED</u>	250.00
TOTAL CHARGES	\$ 6

QTY.	TANKS RECEIVED GALLONS	TYPE FTS	NET TONS	TOTAL
	280	000000000000000000	.14	
	500	000000000000000000	.21	
	550	000000000000000000	.24	
	1000 - 12 ft.	000000000000000000	.44	
	1000 - 8 ft.	000000000000000000	.61	
	1500	000000000000000000	.67	
	2000	000000000000000000	.97	
	2500	000000000000000000	1.34	
	3000	000000000000000000	1.32	
	4000	000000000000000000	1.64	1.64
	5000	000000000000000000	2.42	2.84
	6000	000000000000000000	2.84	2.84
	7500	000000000000000000	3.28	
	8000	000000000000000000	3.44	
	9000	000000000000000000	3.82	
	10000	000000000000000000	4.33	
	12000	000000000000000000	4.93	

All fees incurred are per load unless specified. Terms are net 30 days from date of invoice. Contractor's signature represents acceptance of terms for payment, and confirms that tank removal complies with State laws.

NO. OF TANKS	TOTAL	NET TONS
<u>2</u>		<u>4.48</u>
* F - FIBERGLASS	* S - STEEL 100	

CERTIFICATE OF TANK DISPOSAL / DESTRUCTION
THIS IS TO CERTIFY THE RECEIPT AND ACCEPTANCE OF THE TANK(S) AS SPECIFIED ABOVE. ALL MATERIALS SPECIFIED HAVE BEEN COMPLETELY DESTROYED FOR SCRAP PURPOSES ONLY.

Chris [Signature]
AUTHORIZED REP.

6-11-88
DATE

CONTRACTOR COPY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: **CA C 0000888 861 010138**
Manifest Document No. **113 798**

Page 1 of 1

Information in the shaded areas is not required by Federal law.

2. Generator's Name and Mailing Address
ARCO PETROLEUM PRODUCTS
2000 ALMIRA de la PULGUS
SAN JOSE, CA 94403
C/O K. CHRISTE
(415) 571-2434

A. State Manifest Document Number
87017808
B. State Generator's ID
HYED36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
6. US EPA ID Number
CA T 01810113469

C. State Transporter's ID
81103
D. Transporter's Phone
(707) 746-6899

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
10. US EPA ID Number
CA T 010101646117

G. State Facility's ID
CAHT0000496117
H. Facility's Phone
(800) 222-2964

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. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	DIT	7603	P	State 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 9%
PETROLEUM HYDROCARBON IS
PROFILE 85-62124

K. Handling Codes for Wastes Listed Above
a. **03**
b.
c.
d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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: **L. H. THOMPSON** Signature: *L. H. Thompson for KCHRISTE* Month Day Year: **10/6/06**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **KEITH WATSON** Signature: *Keith Watson* Month Day Year: **10/6/06**

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: **STEVE BROWN RT** Signature: *Steve Brown* Month Day Year: **10/6/06**

87017868 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7560

GENERATOR

TRANSPORTER

FACILITY

2043-05

113-7868

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C1000008818161101010138**
Manifest Document No.

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 PRODUCTS
2000 ALAMEDA de La FULGOS
SAN RAFAEL, CA 94403**
C/O K. CRISTE
(415) 571-2434

A. State Manifest Document Number
87017868
B. State Generator's ID
NYE036015660
C. State Transporter's ID
81105

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
6. US EPA ID Number
CA1T0810013469

D. Transporter's Phone
(707) 746-6699
E. State Transporter's ID

7. Transporter 2 Company Name
8. US EPA ID Number

F. Transporter's Phone

9. Designated Facility Name and Site Address
**CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239**
10. US EPA ID Number
CA1T10101646117

G. State Facility's ID
H. Facility's Phone
(800) 222-2964

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. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	11	DIT	76030	P	State 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
**SOIL W/ PETROLEUM HYDROCARBONS 18
PROFILE NO-C2124**

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
**WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374**

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: **L. H. THOMPSON**
Signature: *L. H. Thompson for K. CRISTE*
Month Day Year: **10/6/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **AGITH WATSON**
Signature: *Agith Watson*
Month Day Year: **10/6/88**

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: _____
Signature: _____
Month Day Year: _____

87017868 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7550

105-403

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000088861** Manifest Document No. **000137**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ALCO PETROLEUM PRODUCTS
2000 ALAMEDA St LA PULGUS
SAN MATEO, CA 94403 **C/O K. CHRISTE**
4. Generator's Phone **(415) 571-2434**

A. State Manifest Document Number
87017869
B. State Generator's ID
KYR036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC. 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
802507
D. Transporter's Phone
(707) 746-6699

7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
10. US EPA ID Number
CAT000646117

E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
CAT000646117
H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
				State	EPA/Other
a. SOIL W/ PETROLEUM HYDROCARBON CALIFORNIA REGULATED MATERIAL ONLY	1	DT 331620	P	352	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
REG. 999
HAZARDOUS HYDROCARBON IN
REFRIGERANT # 62124

K. Handling Codes for Wastes Listed Above
a. **03**
b. **1**

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. H. THOMPSON** Signature *L. H. Thompson for K. CHRISTE* Month Day Year **06 06 88**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **DACK Michaelson** Signature *Dack Michaelson* Month Day Year **06 06 88**

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 **Judy Crawford** Signature *Judy Crawford* Month Day Year **06 06 88**

87017869 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7550

2039-03.

Please print or type. (Form designed for use on elite 12-pitch typewriter).

105-403

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000088861 001037

Manifest Document No. 001037

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 PRODUCTS, 2000 ALAMEDA de la PULGOS, SAN MATEO, CA 94403, C/O K. CHRISTE, (415) 571-2434

A. State Manifest Document Number: 87017869; B. State Generator's ID: NYHQ36015660

5. Transporter 1 Company Name: UNIVERSAL ENGINEERING, INC. 6. US EPA ID Number: CAT080013469

C. State Transporter's ID: 60304; D. Transporter's Phone: (707) 746-6699

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: CHEMICAL WASTE MANAGEMENT, 35251 OLD SKYLINE BLVD., KETTLEMAN CITY, CA 93239, 10. US EPA ID Number: CAT000646117

G. State Facility's ID: H. Facility's Phone: (800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol 1. Waste No.

a. SOIL W/ PETROLEUM HYDROCARBON CALIFORNIA REGULATED MATERIAL ONLY

1 DOT 33 6 20 P State 352 EPA/Other

b.

State EPA/Other

c.

State EPA/Other

d.

State EPA/Other

J. Additional Descriptions for Materials Listed Above: SOIL 999, PETROLEUM HYDROCARBONS 10, PROFILE 10-02124

K. Handling Codes for Wastes Listed Above: a, b, c, d

15. Special Handling Instructions and Additional Information: WEAR PROTECTIVE CLOTHING AS NEEDED, STATION #374

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.

Printed/Typed Name: L. H. THOMPSON

Signature: [Signature]

Month Day Year: 10 26 88

17. Transporter 1 Acknowledgement of Receipt of Materials: Printed/Typed Name: JACK MICHAELSEN

Signature: [Signature]

Month Day Year: 10 26 88

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:

Signature:

Month Day Year:

87017869 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

126-410

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **C1AC10000088861**
 Manifest Document No. **01010136**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
(415) 571-2434
C/O K. CHRISTE

A. State Manifest Document Number
87017870
 B. State Generator's ID
HYHQ000015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
C1AT0800113469

C. State Transporter's ID
802254
 D. Transporter's Phone
(707) 746-6699

7. Transporter 2 Company Name
 8. US EPA ID Number
 9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
C1AT01010161461117

E. State Transporter's ID
 F. Transporter's Phone
 G. State Facility's ID
CAT000046111
 H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	DRUM	43	8.1	352
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
SOIL 999
PETROLEUM HYDROCARBON 18
PROFITEE 10-62124
 K. Handling Codes for Wastes Listed Above
03

16. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

18. 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: **L. D. THOMPSON**
 Signature: *[Signature]*
 Month Day Year: **10/6/1988**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **IRA SOLBERG**
 Signature: *[Signature]*
 Month Day Year: **10/6/1988**

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: **Sally Crawford**
 Signature: *[Signature]*
 Month Day Year: **10/6/88**

87017870
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

136-410

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C10100058861** Manifest Document No. **01010136**
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 PRODUCTS
2000 ALAMEDA de la PUEBLO
SAN JERONIMO, (CA) 94403 C/O K. CHRISTE
(415) 571-2434

4. State Manifest Document Number: **87017870**
5. State Generator's ID: **XXXXXXXXXX015660**
6. State Transporter's ID: **802894**
7. State Transporter's ID: **707 746-6699**
8. State Transporter's ID:
9. State Transporter's ID:
10. State Facility's ID:
11. Facility's Phone: **(800) 222-2964**

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. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	DRUM	318	10 P	State: 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above:
SOIL W/ PETROLEUM HYDROCARBONS
REGULATED MATERIAL ONLY
REF: 69-42134

K. Handling Codes for Wastes Listed Above:
a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION 0374

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. CHRISTE** Signature: *[Signature]* Month Day Year: **10/10/98**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **[Name]** Signature: *[Signature]* Month Day Year: **10/10/98**

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: Signature: Month Day Year:

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650

87017870

GENERATOR

TRANSPORTER

FACILITY

Please print or type: (Form designed for use on elite (12-pitch typewriter).)

116-424

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC0000888610003**
 Manifest Document No. **0003**

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 PRODUCTS
2000 ALAMEDA de la FULGOS
SAN MATEO, CA 94403
 4. Generator's Phone () **(414) 571-2434**
C/O K. CHRISTE

A. State Manifest Document Number
87017871

B. State Generator's ID
HYEQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
81103
 D. Transporter's Phone () **(707) 746-6699**

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
CAT000646117

G. State Facility's ID
CAT99064617

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 590
PETROLEUM HYDROCARBON 18
PROFILE 10-02124

K. Handling Codes for Wastes Listed Above
 a. **03**
 b.
 c.
 d.

15. Special Handling instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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
L. J. THOMPSON

Signature
[Signature] for K. CHRISTE
 Month Day Year
06 06 89

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name
RANDY HASEK

Signature
[Signature]
 Month Day Year
06 06 89

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
Judy Crawford

Signature
[Signature]
 Month Day Year
06 06 89

87017871
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

029-02

Please print or type. (Form designed for use on elite (dot matrix) typewriter).

116-424

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. **CAC000088861** Manifest Document No. **00032**

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
AMCO PETROLEUM PRODUCTS
2000 ALAMEDA de la PUEGUS **C/O K. CHRISTE**
SUN MATEO, CA 94403 **(414) 571-2434**

A. State Manifest Document Number
87017871
B. State Generator's ID
HYH0060156610

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC. 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
51103
D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKIDLINE BLVD.
NETLEMAN CITY, CA 93239 10. US EPA ID Number
CAT000646117

G. State Facility's ID
H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.	
				State	EPA/Other
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	11 DR	43/150 P	352	
b.					
c.					
d.					

3. Additional Descriptions for Materials Listed Above
SOIL W/ PETROLEUM HYDROCARBONS
NETLEMAN CITY, CA

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. D. THOMPSON** Signature *[Signature]* Month Day Year **10/6/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **RANDY HASEK** Signature *[Signature]* Month Day Year **10/6/88**

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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

117-423

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC0000088861** Manifest Document No. **010134**

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 PRODUCTS
2000 ALAMEDA de la PULGOS
SAN MATEO, (CA) 94403 **C/O K. CHRISTE**
(415) 571-2434

A. State Manifest Document Number
87017872

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.

B. State Generator's ID
HY036015660

7. Transporter 2 Company Name
 (Blank)

C. State Transporter's ID
802238

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239

D. Transporter's Phone
(707) 746-6699

E. State Transporter's ID
 (Blank)

F. Transporter's Phone
 (Blank)

G. State Facility's ID
CAT000646117

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
SOIL W/ PETROLEUM HYDROCARBONS
CALIFORNIA REGULATED MATERIAL ONLY

12. Containers No. Type
1 1 DIT

13. Total Quantity
427.90 P

14. Unit Wt/Vol
P

I. Waste No. State
352

EPA/Other
 (Blank)

State
 (Blank)

EPA/Other
 (Blank)

State
 (Blank)

EPA/Other
 (Blank)

J. Additional Descriptions for Materials Listed Above
SOIL 200
PETROLEUM HYDROCARBON 10
PROFILE #2-62124

K. Handling Codes for Wastes Listed Above
03

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
SECTION 1374

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 **W.D. THOMPSON** Signature *W.D. Thompson for K. CHRISTE* Month Day Year **10/6/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **William Taylor** Signature *William Taylor* Month Day Year **10/6/88**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name (Blank) Signature (Blank) Month Day Year (Blank)

19. Discrepancy Indication Space
 (Blank)

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name **Judy Crawford** Signature *Judy Crawford* Month Day Year **10/6/88**

87017872
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

2039-04

3. Generator's Name and Mailing Address ANDERSON PRODUCTS 2000 ALANNA BLVD. LA VERNE SAN JUAN, CA 94403		4. US EPA ID Number (415) 571-2434		5. State-Transporter's ID CA 000013469		6. Transporter's Phone (707) 745-6099	
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.		6. US EPA ID Number CA 000013469		7. State-Transporter's ID CA 000013469		8. Transporter's Phone (707) 745-6099	
7. Transporter 2 Company Name _____		8. US EPA ID Number _____		9. State-Transporter's ID _____		10. Transporter's Phone _____	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLARK BLVD. KETTLEWELL CITY, CA 93239		10. US EPA ID Number CA 0000646117		11. State-Facility's ID CA 0000646117		12. Facility's Phone (800) 222-2964	

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
				State	EPA/Other
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	11	11	11	352	
b.					
c.					
d.					

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
SECTION 4374

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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17. Transporter 1 Acknowledgment of Receipt of Materials
 Printed/Typed Name: **W.D. THOMPSON** Signature: *[Signature]* Month Day Year: **10/10/89**

18. Transporter 2 Acknowledgment of Receipt of Materials
 Printed/Typed Name: **William Taylor** Signature: *[Signature]* Month Day Year: **10/10/89**

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: _____ Signature: _____ Month Day Year: _____

87017872 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR TRANSPORTER FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. **CAC000079269** Manifest Document No. **1111**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
ARCO PRODUCTS
PO BOX 5611
SAN MATEO CA 94403
 4. Generator's Phone **(415) 571 2430**

A. State Manifest Document Number
87857054
 B. State Generator's ID
HYHQ36013669

5. Transporter 1 Company Name
CHISM Trucking 6. US EPA ID Number
CA098058481

C. State Transporter's ID
903299
 D. Transporter's Phone
415-867-9854

7. Transporter 2 Company Name
 8. US EPA ID Number
 9. Designated Facility Name and Site Address
WASTE MANAGEMENT
KUTTELMAN HILL'S DISPOSAL SITE
30251 OLD SKI LINE RD
KUTTELMAN CITY CA 10. US EPA ID Number
CA T000646117

E. State Transporter's ID
 F. Transporter's Phone
 G. State Facility's ID
CAT000646117
 H. Facility's Phone
800-722-2964

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 SOLID NOX ORME NA 9189	001	BT	00.018	Y	State EPA/Other 871
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
 K. Handling Codes for Wastes Listed Above
611

16. Special Handling Instructions and Additional Information
SFO G-621241 ALL 6806072321
GLOVES BOOTS LONG SLEEVE SHIRTS

18. 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 **FOR DON DILLARD ARCO PROD** Signature **Don Dillard** Month Day Year **06 27 88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Bill McCRAW** Signature **Bill McCRAW** Month Day Year **06 27 88**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space
Incomplete 2/1081 (P)
1/2-Improper Name

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19:
 Printed/Typed Name **Judy Crawford** Signature **Judy Crawford** Month Day Year **06 27 88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

STATION # 374

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. **CA1009079269** Manifest Document No. **111111**

Page 1 of 1 information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
ARCO PRODUCTS
PO BOX 5611
SAN MATEO CA 94402
 Generator's Phone (415) 571 2430

State Manifest Document Number
87857054
 B. State Generator's ID
H1XMG369/5669

5. Transporter 1 Company Name
Chism Trucking

C. State Transporter's ID
903299
 D. Transporter's Phone
804-867-6934

7. Transporter 2 Company Name

E. State Transporter's ID

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
KUTTEL MAN HILL DISPOSAL SITE
3251 OLD SKYLINE RT
KUTTEL MAN CITY CA

10. US EPA ID Number
CA1000646117
 G. State Facility's ID
CA1000646117
 H. Facility's Phone
800/722-2964

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 SOLID NOS. CHLOROPARAFFIN	1	DRUM	1	55	State: CALIF EPA/Other: 611
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
 a. **611**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
SFO G 62124 ALL. 6806072321
GLOVES BOOTS LONG SLEEVE SHIRT

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 **Don Dillard ARCO PROD** Signature *Don Dillard* Month Day Year **10 6 88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Bill McCraw** Signature *Bill McCraw* Month Day Year **10 6 88**

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 _____ Signature _____ Month Day Year _____

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR
TRANSPORTER
FACILITY

22-10

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CACC 000 79269**
 Manifest Document No. _____

2. Page _____ of _____ Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ARCO PRODUCTS 4/6 KYLE CRISTIE
PO BOX 5211 SAN MATEO 94402

A. State Manifest Document Number
87857074

4. Generator's Phone **415 571 2434** **STATION 374**

B. State Generator's ID
H 4 H 036 015669

5. Transporter 1 Company Name **SWARTZ TRUCKING**
 6. US EPA ID Number **FAD 98 173 1109**

C. State Transporter's ID **87836 810367**

7. Transporter 2 Company Name _____
 8. US EPA ID Number _____

D. Transporter's Phone _____
 E. State Transporter's ID _____

9. Designated Facility Name and Site Address
Chemical Waste Management
K. Heiman Hills Disposal site
32551 Old Skyline Blvd / K. Heiman City
 10. US EPA ID Number **CAT 000646117**

F. Transporter's Phone **415-672-5090**
 G. State Facility's ID **CAT 000646117**

H. Facility's Phone **800 232 2964**

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 Solid HCS CHARGE NA 4189	90	20T	90020	Y	State CA Only EPA/Other _____ State _____ EPA/Other _____ State _____ EPA/Other _____ State _____ EPA/Other _____
b. _____	_____	_____	_____	_____	State _____ EPA/Other _____ State _____ EPA/Other _____ State _____ EPA/Other _____
c. _____	_____	_____	_____	_____	State _____ EPA/Other _____ State _____ EPA/Other _____ State _____ EPA/Other _____
d. _____	_____	_____	_____	_____	State _____ EPA/Other _____ State _____ EPA/Other _____ State _____ EPA/Other _____

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
 a. **03**
 b. _____
 c. _____
 d. _____

15. Special Handling Instructions and Additional Information
SFC 662134 Acc. 6806075321
(Below: Peds. Long sleeve shirts)

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 **Don Dillard for ARCO FROG** Signature **Don Dillard** Month Day Year **14 07 88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Alfred G. Schwartz** Signature **Alfred G. Schwartz** Month Day Year **14 07 88**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space
1. incomplete 2. no entry
I 352 I. 611 1/4 improper DOT J. no entry

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name **Steph Pickard** Signature **Steph Pickard** Month Day Year **06 08 88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550.

25-10

STATION # 374

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No.

Manifest Document No.

Page 1 of 1

Information in the shaded areas is not required by Federal law.

CACD100079269

State Manifest Document Number

87857074

3. Generator's Name and Mailing Address

ARCO PRODUCTS, c/o KYLE-CHRISTE
 PO BOX 5211 SACRAMENTO 94402

B. State Generator's ID

H111036011516160

4. Generator's Phone

415 771 2434

C. State Transporter's ID

212326710366

5. Transporter 1 Company Name

SWARTZ TRUCKING

6. US EPA ID Number

FA10981431109

D. Transporter's Phone

913 892 5090

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

Chemical Waste Management
 Killeman Mills Disposal Site
 2551 Old Highway Hwy 10, Colusa, CA

10. US EPA ID Number

CAT10006461117

G. State Facility's ID

CAT10006461117

H. Facility's Phone

800 352 3964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers
No. Type

13. Total Quantity

14. Unit
Wt/Vol

I. Waste No.

a. Hazardous waste fluid
 HCS CLASS. NA 919

6012 DT

401020

Y

State

CA CA

EPA/Other

b.

State

EPA/Other

c.

State

EPA/Other

d.

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

a. 60

c.

d.

15. Special Handling Instructions and Additional Information

RCRA 602104 ACC. US06073331
 (Close to bottom units)

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

Don E. H. ... ARCO PRODUCTS

Signature

[Signature]

Month Day Year

10/10/88

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

HIERBA SCHWARTZ

Signature

[Signature]

Month Day Year

11/17/88

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

Signature

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

Please print or type. (Form designed for use on a (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000079269** Manifest Document No.

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Arco Products c/o Kyle Cristic
P.O. Box 5511 Sacramento Ca, 94403
4. Generator's Phone **(415) 571 2434** **STATION 374**

A. State Manifest Document Number
87857076

B. State Generator's ID
H Y M 936015660

C. State Transporter's ID
902803

D. Transporter's Phone
415 295116

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID
CATD000646117

H. Facility's Phone
800 222 0964

5. Transporter 1 Company Name
LILLARD TRUCKING 6. US EPA ID Number
CAD981692809

7. Transporter 2 Company Name 8. US EPA ID Number

9. Designated Facility Name and Site Address
Chemical Waste Management 10. US EPA ID Number
Kellman Hills Disposal Site 93039
35251 Old Skyline Blvd, Kellman City, CA, T, O, O, 6, 4, 6, 1, 1, 7

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. **Hazardous waste Solid**
NO3 ORM-E NA 9189

CO1 DIT 000204

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
a. **03** b.

15. Special Handling Instructions and Additional Information
SFO G 62124 Acc. 6806073331

Gloves Boots Long sleeve shirts

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
KYLE LILLARD FOR ARCO PROD

Signature
Kyle Lillard Month Day Year
10/6/07/28

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
DUANE TATAKAMOTONGA

Signature
Duane Tatakamotonga Month Day Year
10/6/07/28

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name

Signature
Month Day Year

19. Discrepancy/Indication Space
1a - Improper Name
1a - State - 611 **incomplete**

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Judy Crawford Signature
Judy Crawford Month Day Year
10/6/07/28

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000079269** Manifest Document No.

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Arco Products
 P.O. Box 5811
 San Mateo CA 94402
 4. Generator's Phone (415) 571 2434

A. State Manifest Document Number
87857077
 B. State Generator's ID
HYM936015660

5. Transporter 1 Company Name
HTB Trucking
 6. US EPA ID Number
RAD9R1426971

C. State Transporter's ID
901421
 D. Transporter's Phone
415 756-1992

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
Chemical Waste Management
KATHMAN HILLS WASTE DISPOSAL SITE
2551 Ead Skyline Blvd, KATHMAN CITY
 10. US EPA ID Number
CAT000046117

G. State Facility's ID
CAT000046117
 H. Facility's Phone
800 222 2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. HAZARDOUS WASTE SOLID HCS ORW-C HA 9189	01011	DT	01010210	4	State CA Only EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
611 03

15. Special Handling Instructions and Additional Information
SFC G62124 Acc. 6806072327
Gloves Boots Longsleeve Shirts

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 **Don Dillard for Arco Prod.** Signature **Don Dillard** Month Day Year **10/6/17/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Mark Banks** Signature **Mark Banks** Month Day Year **10/6/17/88**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space
① Incomplete

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name **Steve Green RT** Signature **Steve Green** Month Day Year **10/6/17/88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000079269** Manifest Document No.

2. Page 1 of 1 Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Arco Products
 P.O. Box 5511
 San Mateo Co, 94402
 4. Generator's Phone (415) 571 3434

c/o Kyle Coister
STATION 374

A. State Manifest Document Number
87857078
 B. State Generator's ID
HYHQ36015660
 C. State Transporter's ID
702004
 D. Transporter's Phone
415-124-5116

5. Transporter 1 Company Name
DILLARD TRUCKING
 6. US EPA ID Number
CAD961692809

E. State Transporter's ID
 F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management
Knollman Hills Disposal Site
85251 Old Skyline Blvd
McKlemm Co, CA 92539
 10. US EPA ID Number
CAT000646117

G. State Facility's ID
CAT000646117
 H. Facility's Phone
800 332 2964

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 SOLID 1105 ORME NA 9789	001	DT	099184		State CA EPA/Other 811
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
 K. Handling Codes for Wastes Listed Above
61103

15. Special Handling Instructions and Additional Information
SIC 662124 - Acc. 6806072321
Gloves Boots Longsleeve Shirts

18. 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: **KON DILLARD FOR ARCO PROD** Signature: *[Signature]* Month Day Year: **12/07/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **TIA TALIAFERRO** Signature: *[Signature]* Month Day Year: **12/07/88**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space
 NO ENTRY Incomplete

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name: **SUELLA BRISAN PT** Signature: *[Signature]* Month Day Year: **12/09/88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR TRANSPORTER FACILITY

STATION # 374

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000079269 Manifest Document No. _____

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
401 Lullback Park Area 3000
10000 1st St
San Diego, CA 92124

A. State Manifest Document Number
67857078

5. Transporter 1 Company Name
WILLARD TRUCKING 6. US EPA ID Number
CAD901692809

B. State Generator's ID
H Y H 9 3 6 0 1 5 0 6 1 0

7. Transporter 2 Company Name _____ 8. US EPA ID Number _____

C. State Transporter's ID
702504

9. Designated Facility Name and Site Address
Chino Valley Hospital
11000 1st St
Chino Valley, CA 95924 10. US EPA ID Number
CAD901692809

D. Transporter's Phone
619-724-3716

E. State Transporter's ID _____

F. Transporter's Phone _____

G. State Facility's ID
CAD901692809

H. Facility's Phone
509 325 2964

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. _____	_____	_____	_____	_____	State <u>CA, Only</u> EPA/Other _____
b. _____	_____	_____	_____	_____	State EPA/Other _____
c. _____	_____	_____	_____	_____	State EPA/Other _____
d. _____	_____	_____	_____	_____	State EPA/Other _____

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
 a. 601 b. _____
 c. _____ d. _____

15. Special Handling Instructions and Additional Information
SP-60124 Aug 6906071321
Chino Valley Hospital

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 WILLARD TRUCKING AREA 3000 Signature _____ Month Day Year 11/27/98

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name TRAIL TRUCKING Signature _____ Month Day Year 11/27/98

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 _____ Signature _____ Month Day Year _____

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR
TRANSPORTER
FACILITY

STATION # 74

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

CAC000079269

Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

Anco Products
c/o Kyle Caistic
P.O. Box 5511
San Mateo CA 94402

A. State Manifest Document Number

87857079

B. State Generator's ID

H 141936015660

4. Generator's Phone (415) 571 2434

C. State Transporter's ID

802390-391

5. Transporter 1 Company Name

SCHUBERT Trucking

6. US EPA ID Number

CAD 981431109

D. Transporter's Phone

415 672 5090

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

The Metal Co. Management
Removal and Disposal Site
12251 5th Street Blvd
R. McMan City CA 93334

10. US EPA ID Number

CAT 000646117

G. State Facility's ID

CAT000646117

H. Facility's Phone

800 333 2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. RELATIONS LEAK SOLID
NCS CAM-C NA 9189

12. Containers
No. Type

002 DT 00020 Y

13. Total Quantity

14. Unit Wt/Vol

I. Waste No.

State Cal Only
EPA/Other

b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

a. 6H CB

15. Special Handling Instructions and Additional Information

SFC 662134 Acc. 6506072321
Gloves Boots Long sleeve Suits

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

Tom Willard for Anco Prod

Signature

Tom Willard

Month Day Year

10/6/97 88

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Jon Hascup

Signature

Jon Hascup

Month Day Year

08/02/88

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

1/14 improper DOT 1) incomplete 2) no entry
I 352 I.G.11 2) no entry

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Steve Pickel

Signature

Steve Pickel

Month Day Year

10/6/97 88

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

STATION 374

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 706 # 8003

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAC00007926951712		Manifest Document No. 12		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 Products, c/o Kyle CHRISTIE PO. BOX 5811 SAN MATEO CA 94402 6407 TOLSON AVE OAK, CA.				A. State Manifest Document Number 87851122		B. State Generator's ID			
4. Generator's Phone (415) 571-2434				6. US EPA ID Number CAD0004771168		C. State Transporter's ID 902440		D. Transporter's Phone (915) 543-4835	
5. Transporter 1 Company Name H+H SHIP SERVICE				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name				10. US EPA ID Number		G. State Facility's ID 38-001-78		H. Facility's Phone (415) 543-0906	
9. Designated Facility Name and Site Address H+H SHIP SERVICE 220 CHILWA BASIN ST SAN FRANCISCO, CA 94107				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. WASTE HAZARDOUS LIQUID WOOD CRACK W/119189				0.01 TT		0.0750 G		I. Waste No. State 135 EPA/Other CA/ONLY	
b.								State	
c.								EPA/Other	
d.								State	
								EPA/Other	
J. Additional Descriptions for Materials Listed Above WATER - 9990 GAS - 1970 LESS THAN				K. Handling Codes for Wastes Listed Above a. 01					
15. Special Handling Instructions and Additional Information GLOVES									
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 Luis Davis				Signature <i>Luis Davis</i>		Month Day Year 06/07/88			
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Dawick Gerson				Signature <i>Dawick Gerson</i>		Month Day Year 06/07/88			
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 PETER YIMBO				Signature Peter O. Yimbo		Month Day Year 10/6/08/88			

116-424

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 87017873
 GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAC00008886100033		Manifest Document No. 100033		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 PRODUCTS 2000 ALAMEDA de la pulgus SAN MATEO, CA, 94403						A. State Manifest Document Number 37017873							
4. Generator's Phone (415) 571-2434						B. State Generator's ID HYBQ36015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.			6. US EPA ID Number CAT080013469			C. State Transporter's ID 811103		D. Transporter's Phone (707) 746-6699					
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239						10. US EPA ID Number CAT000646117							
						G. State Facility's ID CAT000646117		H. Facility's Phone (800) 222-2964					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 1 DIT		46170		P		State 352	
b.												State	
c.												State	
d.												State	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
a. SOIL 998						a. 03							
b. PETROLEUM HYDROCARBON 18						b.							
c. PROFILE #G-62124						c.							
d.						d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L. J. THOMPSON				Signature <i>L. J. Thompson</i>				Month Day Year 10/6/98					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name RANDY HAGER				Signature <i>Randy Hager</i>				Month Day Year 10/6/98					
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 Judy Crawford				Signature <i>Judy Crawford</i>				Month Day Year 06/08/88					

Please print or type. (Form designed for use on 12-pitch typewriter).

116-424

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC00008886100033**
Manifest Document No.

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 PRODUCTS
2000 ALAMEDA de la pulgas
SAN MATEO, CA 94403
4. Generator's Phone **(415) 571-2434**
C/O K. CHRISTE

A. State Manifest Document Number
37017873
B. State Generator's ID
BYHQ06015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
6. US EPA ID Number
CAT080013469

C. State Transporter's ID
871103
D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
10. US EPA ID Number
CAT000646117

G. State Facility's ID
H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
				State	EPA/Other
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	11	46170	P	352	
b.					
c.					
d.					

13. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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: **L. J. THOMPSON** Signature: *[Signature]* Month Day Year: **10 10 1988**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **RANDY THORSEN** Signature: *[Signature]* Month Day Year: **10 10 1988**

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: Signature: Month Day Year:

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017873

126-410

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. CA C 0 0 0 0 8 8 8 6 1	Manifest Document No. 0 0 0 0 3 2	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
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3. Generator's Name and Mailing Address ARCO PETROLEUM PRODUCTS 2000 ALAMEDA de la PULGUS C/O K. CHRISTE SAN MATEO, CA 94403 (415) 571-2434	A. State Manifest Document Number 87017874
4. Generator's Phone (CA) 94403 (415) 571-2434	B. State Generator's ID HYH036015560

5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.	6. US EPA ID Number CA T 0 8 0 0 1 3 4 6 9	C. State Transporter's ID 502294
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone (707) 746-6699

9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KEPTLEMAN CITY, CA 93239	10. US EPA ID Number CA T 0 0 0 6 4 6 1 1 7	G. State Facility's ID CAT000646117
		H. Facility's Phone (800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	1 D R	435710	P	State 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124	K. Handling Codes for Wastes Listed Above a. 03 b. c. d.
--	--

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 W H THOMPSON	Signature <i>W H Thompson</i>	Month Day Year 10/10/88
---	----------------------------------	----------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name WILL ELLIS	Signature <i>Will Ellis</i>	Month Day Year 10/10/88
--	--------------------------------	----------------------------

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 Willy Crawford	Signature <i>Willy Crawford</i>	Month Day Year 06/08/88
--	------------------------------------	----------------------------

87017874
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

136-410

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC1010101818161** Manifest Document No. **01010137**
 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 PRODUCTS
2000 ALAMEDA de la PULGUS
C/O K. CHRISTE
SAN MATEO, (CA) 94403 (415) 571-2434
 A. State Manifest Document Number **87017874**
 B. State Generator's ID **HYHO36015560**

5. Transporter 1 Company Name **UNIVERSAL ENGINEERING, INC.** 6. US EPA ID Number **CAT080013469**
 C. State Transporter's ID **802194**
 D. Transporter's Phone **(707) 746-6699**

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 **CHEMICAL WASTE MANAGEMENT**
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239 10. US EPA ID Number **CAT000646117**
 G. State Facility's ID _____
 H. Facility's Phone **(800) 222-2964**

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. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	11 DR	431.710	P	State 352 EPA/Other
b. _____					State EPA/Other
c. _____					State EPA/Other
d. _____					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 18
PROFILE 1G-62124
 K. Handling Codes for Wastes Listed Above
 a. _____ b. _____
 c. _____ d. _____

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. D. THOMPSON** Signature *[Signature]* Month Day Year **10/20/89**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **_____** Signature *[Signature]* Month Day Year **10/20/89**

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 _____ Signature _____ Month Day Year _____

87017874
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

125-418

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000088861** Manifest Document No. **010031**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ANCO PETROLEUM PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
 4. Generator's Phone () **(415) 571-2434**

A. State Manifest Document Number
87017875

B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
802371
 D. Transporter's Phone () **(707) 746-6699**

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KEPPLERMAN CITY, CA 93239
 10. US EPA ID Number
CAT0000646117

G. State Facility's ID
CAT0000646117

H. Facility's Phone
(800) 222-2964

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. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

1 | 1 | D | T | 449.50 | P
 State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 998
PETROLEUM HYDROCARBON 18
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **03**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED

STATION #2A #374

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 **L. L. THOMPSON** Signature *L. L. Thompson for K. Christie* Month Day Year **01/10/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Jamie Weatherby** Signature *Jamie Weatherby* Month Day Year **01/10/88**

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 **Debra Crawford** Signature *Debra Crawford* Month Day Year **06/08/88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017875

125-418

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000088861** Manifest Document No. **010131**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
 C/O K. CHRISTE
 (415) 571-2434

A. State Manifest Document Number
37017875

B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.

6. US EPA ID Number
CAT080013469

C. State Transporter's ID
30371

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone
(707) 746-6699

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239

10. US EPA ID Number
CAT0101646117

E. State Facility's ID

H. Facility's Phone
(800) 222-2964

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. **SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY**

1 | DIT | 449.50 | P | State 352

b.

State EPA/Other

c.

State EPA/Other

d.

State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 998
PETROLEUM HYDROCARBON 18
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED

STATION #174

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: **L. J. THOMPSON** Signature: *L. J. Thompson for K. Christe* Month Day Year: **06 10 1988**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **James Weatherby** Signature: *James Weatherby* Month Day Year: **06 10 1988**

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: Signature: Month Day Year:

Printed/Typed Name: Signature: Month Day Year:

Printed/Typed Name: Signature: Month Day Year:

87017875 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

101-408

87017876
 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		1. Generator's US EPA ID No. CA1C10101010138861		Manifest Document No. 01010130		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, (CA) 94403						A. State Manifest Document Number 87017876							
C/O K. CHRISTIE (415) 571-2434						B. State Generator's ID HYHQ36015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number CAT080013469		C. State Transporter's ID 802370		D. Transporter's Phone (707) 746-6699					
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239						10. US EPA ID Number CAT000646117		G. State Facility's ID CAT000646117					
						H. Facility's Phone (800) 222-2964							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 1 DIT		157910		P		State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L H THOMPSON						Signature <i>L H Thompson for K. Christie</i>				Month Day Year 10/10/89			
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name JAN A CALDERBERG						Signature <i>Jan A Calderberg</i>				Month Day Year 10/10/89			
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 STEPH BRIDGEMAN RT						Signature <i>Steph Bridgeman</i>				Month Day Year 10/10/89			

101-408

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C101010188861** Manifest Document No. **01010130**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN RAFAEL, (CA) 94403
C/O K. CHRISTE
(415) 571-2434

A. State Manifest Document Number
87017876

B. State Generator's ID
RYHO36035660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.

6. US EPA ID Number
CA T 0 8 0 0 1 3 4 6 9

C. State Transporter's ID
602370

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone
(707) 746-6699

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239

10. US EPA ID Number
CA T 0 0 0 6 4 6 1 1 7

E. State Transporter's ID

F. Transporter's Phone
(800) 222-2964

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. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. A. THOMPSON** Signature *L. A. Thompson for K. Christie* Month Day Year **10/26/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **IRA H. HOELTZEL** Signature *Ira H. Hoeltzel* Month Day Year **10/26/88**

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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017876

138-409

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 6 1 0 0 0 3 9		Manifest Document No.		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA 94403						A. State Manifest Document Number 07017878							
C/O K. CHRISTE (415) 571-2434						B. State Generator's ID HYHQ36015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9		C. State Transporter's ID 802329		D. Transporter's Phone (707) 746-6699					
7. Transporter 2 Company Name						8. US EPA ID Number		E. State Transporter's ID					
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. REDFLEMAN CITY, CA 93239						10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		G. State Facility's ID 01A7900046117					
						H. Facility's Phone (800) 222-2964							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 11 DIT		458010		P		State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 998 PETROLEUM HYDROCARBON 18 PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION 1233 374													
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 L H THOMPSON				Signature [Signature]				Month Day Year 10/10/88					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Jack Smith				Signature [Signature]				Month Day Year 10/10/88					
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 Jody Crawford				Signature [Signature]				Month Day Year 06/08/88					

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017878

Please print or type. (Form designed for use on a 2-pitch typewriter).

128-409

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1C10000088861010139		Manifest Document No. 1010139		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA 94403				C/O K. CHRISTE (415) 571-2434		A. State Manifest Document Number 87017878					
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				4. US EPA ID Number CA1T080013469		B. State Generator's ID HYH036015660					
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID 802389					
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KEMLEMAN CITY, CA 93239				10. US EPA ID Number CA1T0101646117		D. Transporter's Phone (707) 746-6699					
						E. State Transporter's ID					
						F. Transporter's Phone					
						G. State Facility's ID					
						H. Facility's Phone (800) 222-2964					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.		
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						11	DIT 45800	P	State 352		
b.									EPA/Other		
c.									State		
d.									EPA/Other		
J. Additional Descriptions for Materials Listed Above SOIL 99# PETROLEUM HYDROCARBON 1# PROFILE #G-62124						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #2030 374											
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 L. A. THOMPSON				Signature <i>[Signature]</i>				Month Day Year 10/10/89			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name Jack Smith				Signature <i>[Signature]</i>				Month Day Year 10/10/89			
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				Signature				Month Day Year			

87017878
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC00008886100040**
 Manifest Document No. **000040**

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 PRODUCTS
2000 ALAMEDA de la PULGOS C/O K. CHRISTE
SAN MATEO, CA 94403 (415) 571-2434

A. State Manifest Document Number
87017879
 B. State Generator's ID
HVHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
01104
 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
CAT000646117

G. State Facility's ID
Catoro46ND
 H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
 12. Containers No. | Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a.	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
					State	EPA/Other
SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	D	4642.0	P	352	
b.					State	EPA/Other
c.					State	EPA/Other
d.					State	EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **03**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #2050974

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: **L H THOMPSON** Signature: *L H Thompson for KCHRISTE* Month Day Year: **10 6 19 88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **Simon Hardin** Signature: *Simon Hardin For Universal Eng* Month Day Year: **10 6 19 88**

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: **Steve Crawford** Signature: *Steve Crawford* Month Day Year: **10 6 19 88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017879

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 6 1 0 0 0 8 0		Manifest Document No.	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 PRODUCTS 2000 ALAMEDA de la PULGOS C/O K. CHRISTE SAN MATEO, CA 94403 (415) 571-2434				A. State Manifest Document Number 87017879		B. State Generator's ID HYHQ36015660	
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.		6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9		C. State Transporter's ID P11104		D. Transporter's Phone (707) 746-6699	
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239				10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		G. State Facility's ID	
						H. Facility's Phone (800) 222-2964	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY			1	46420	P	State 352 EPA/Other	
b.						State EPA/Other	
c.						State EPA/Other	
d.						State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124				K. Handling Codes for Wastes Listed Above a. b. c. d.			
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #2030 374							
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 L. H. THOMPSON			Signature <i>L. H. Thompson for K. Christie</i>		Month Day Year 10 6 19 88		
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Jina Hardin			Signature <i>Jina Hardin for Universal Eng.</i>		Month Day Year 10 17 88		
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			Signature		Month Day Year		

87017879
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C1010101818161101010147**
 Manifest Document No. **01010147**

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 PRODUCTS
2000 ALAMEDA de la PULGOS C/O K. CHRISTE
SAN MATEO, CA 94403 (415) 571-2434

A. State Manifest Document Number
37017880

B. State Generator's ID
HYH036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.

6. US EPA ID Number
CAT080013469

C. State Transporter's ID
82259
 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239

10. US EPA ID Number
CAT000646117

G. State Facility's ID
CA00010401X11

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. | Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

1 | 1 | D | T | 4 | 17 | 4 | 2 | 10 | P
 State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **03**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information

WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #2000374

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 **L. H. THOMPSON** Signature *L. H. Thompson for K. Christie* Month Day Year **10/6/18/18**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name **BOBBI ANDROSS** Signature *Bobbi Andross* Month Day Year **10/6/18/18**

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 **Judy Crawford** Signature *Judy Crawford* Month Day Year **10/08/18**

87017880
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: **CA1C10101018181611010141** Manifest Document No.

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 PRODUCTS
2000 ALAMEDA de la PULGUS **C/O K. CHRISTE**
 4. **SAN MATEO, (CA) 94403 (415) 571-2434**

A. State Manifest Document Number
37017830

B. State Generator's ID
HYH036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC. 6. US EPA ID Number
CA T080013469

C. State Transporter's ID
2259 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239 10. US EPA ID Number
CA T000646117

G. State Facility's ID

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

1 | 1 | D T | 4 | 17 | 12 | 10 | P | State
352
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE IG-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information

WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #2080374

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: **L. H. THOMPSON** Signature: *[Signature]* Month Day Year: **10/6/1989**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **Brian Anderson** Signature: *[Signature]* Month Day Year: **10/6/1989**

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: Signature: Month Day Year:

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017880

87017877
 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		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 6 1 0 0 0 2 9		Manifest Document No. 0 0 0 2 9		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 PRODUCTS 2000 ALAMEDA de la PULGUS C/O K. CHRISTE SAN MATEO, CA 94403 (415) 571-2434						A. State Manifest Document Number 87017877					
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.						6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9					
7. Transporter 2 Company Name						8. US EPA ID Number					
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239						10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY b. c. d.						1 1 DIT		43950 P		I. Waste No.	
										State: 352	
										EPA/Other	
										State	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE KG-62124						K. Handling Codes for Wastes Listed Above		a. 03		b. sluc	
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374											
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 L. A. THOMPSON			Signature <i>L. A. Thompson</i>			Month Day Year 10/21/98					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 10/21/98	
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 <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 11/11/98	

UPSR 75

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC1000088861010129**
 Manifest Document No. **010129**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
C/O K. CHRISTE
SAN MATEO, (CA) 94403 (415) 571-2434

A. State Manifest Document Number **87017877**
 B. State Generator's ID **HYHQ36015660**

5. Transporter 1 Company Name **UNIVERSAL ENGINEERING, INC.**
 6. US EPA ID Number **CAT080013469**

C. State Transporter's ID **801913801914**
 D. Transporter's Phone **(707) 746-6699**

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number **CAT000646117**

G. State Facility's ID **CAT000646117**
 H. Facility's Phone **(800) 222-2964**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	11	DIT	43950	P	State 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L.A. THOMPSON** Signature *L.A. Thompson* Month Day Year **10/21/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature *[Signature]* Month Day Year **10/21/88**

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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017877

114-403

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAC000088861	Manifest Documents No. 00003	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
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3. Generator's Name and Mailing Address ARCO PETROLEUM PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA 94403		C/O K. CHRISIE	4. Generator's Phone () (415) 571-2434	A. State Manifest Document Number 87017908
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.		6. US EPA ID Number CAT080013469	B. State Generator's ID HYHQ36015660	

7. Transporter 2 Company Name		8. US EPA ID Number	C. State Transporter's ID 802309	D. Transporter's Phone (707) 746-6699
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239		10. US EPA ID Number CAT000646117	E. State Transporter's ID	F. Transporter's Phone

G. State Facility's ID CART00646117		H. Facility's Phone (800) 222-2964
--	--	---------------------------------------

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.	
				State	EPA/Other
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	DT38740 P		352	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124	K. Handling Codes for Wastes Listed Above a. 03 b. c. d.
--	--

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 L. D. THOMPSON	Signature <i>[Signature]</i>	Month Day Year 10/11/88
---	---------------------------------	----------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name William Taylor	Signature <i>[Signature]</i>	Month Day Year 10/11/88

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month Day Year 10/11/88

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 Judy Crawford	Signature <i>[Signature]</i>	Month Day Year 10/11/88

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

87017908

117-406

1. UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 0 8 3 8 6 1		Manifest Document No. 0 0 0 0 6 0		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA, 94403						A. State Manifest Document Number 37017909							
4. Generator's Phone () 94403 (415) 571-2434						B. State Generator's ID H Y H Q 3 6 0 1 5 6 6 0							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9		C. State Transporter's ID 802312							
7. Transporter 2 Company Name						D. Transporter's Phone (707) 746-6699							
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KIBBLEMAN CITY, CA 93239						10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		G. State Facility's ID C A T 0 0 0 6 4 6 1 1 7					
						H. Facility's Phone (800) 222-2964							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. XXXXXXXX SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 1 D T		3 9 9 6 0 P				State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L H THOMPSON						Signature L H Thompson for K. CHRISTE				Month Day Year 10/6/1088			
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name WILLIAM TAYLOR						Signature William Taylor				Month Day Year 10/6/1088			
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 Steve Pickard						Signature Steve Pickard				Month Day Year 06/11/88			

87017909
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

117-406

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 6 1 0 0 0 6 9		Manifest Document No. 0 0 0 6 9		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA 94403				C/O K. CHRISTE		A. State Manifest Document Number 87017909							
4. Generator's Phone () 94403 (415) 571-2434						B. State Generator's ID HYHQ36015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.		6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9				C. State Transporter's ID 80312		D. Transporter's Phone (707) 746-6699					
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KINGLEMAN CITY, CA 93239				10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		G. State Facility's ID		H. Facility's Phone (800) 222-2964					
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. XXXXXXXX SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 1 D T 3 8 9 6 0 P						State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. b. c. d.							
15. Special Handling instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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. CHRISTE				Signature K. CHRISTE				Month Day Year 10/6/88					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name WILLIAM TAYLOR				Signature William Taylor				Month Day Year 10/6/88					
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				Signature				Month Day Year					

87017909
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

Please print or type. (Form designed for use on a 2-pitch typewriter).

119-409

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **C A C 0 0 0 1 0 1 8 1 8 1 8 6 1**
Manifest Document No. **0 1 0 1 0 1 6 0**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN ANTONIO (CA) 94403**
C/O K. CHRISTE
(415) 571-2434

A. State Manifest Document Number
87017910

B. State Generator's ID
HYH036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
6. US EPA ID Number
C A T 0 8 0 0 1 3 4 6 9

C. State Transporter's ID
802369

7. Transporter 2 Company Name
8. US EPA ID Number

D. Transporter's Phone
(707) 746-6699

9. Designated Facility Name and Site Address
**CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239**
10. US EPA ID Number
C A T 0 0 0 6 4 6 1 1 7

G. State Facility's ID
102000646117

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type
13. Total Quantity
14. Unit Wt/Vol
1. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS
CALIFORNIA REGULATED MATERIAL ONLY**

State **352**
EPA/Other
1 D T 47280 P

b.

State
EPA/Other

c.

State
EPA/Other

d.

State
EPA/Other

J. Additional Descriptions for Materials Listed Above
**SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124**

K. Handling Codes for Wastes Listed Above
a. **03**
b.
c.
d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **Jack Thomsen** Signature *Jack Thomsen* Month Day Year **10/6/10/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year **10/6/10/88**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name **Jack Michaelson** Signature *Jack Michaelson* Month Day Year **10/6/10/88**

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 Signature Month Day Year **10/6/10/88**

87017910 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

Please print or type. (Form designed for use on a 12-pitch typewriter).

119-409

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C01010188861010161**
 Manifest Document No. **010161**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
C/O K. CHRISTE
SAN MATEO, CA 94403
(415) 571-2434

A. State Manifest Document Number
87017510

B. State Generator's ID
HYH036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CA1T080013469

C. State Transporter's ID
502329
 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
REDFLEMAN CITY, CA 93239
 10. US EPA ID Number
CA1T000646117

G. State Facility's ID
 H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

State **352**
 EPA/Other
11 DOT 471290 P

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 998
PETROLEUM HYDROCARBON 18
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a.
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. J. THOMPSON** Signature *[Signature]* Month Day Year **10/01/1998**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year **10/01/1998**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Jack Michaelson** Signature *[Signature]* Month Day Year **10/01/1998**

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 Signature Month Day Year

87017910
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

116-417

87017911
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC000008886100062** Manifest Document No. **100062**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
 C/O K. CHRISTE
 (415) 571-2434

A. State Manifest Document Number
37017911

B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
50228
 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
CAT000646117

G. State Facility's ID
CAT000646117

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No.

a. **SOIL w/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

1 | 1 | DIT | 15860 | P | State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **03**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED

STATION #374

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 **L. H. THOMPSON** Signature *[Signature]* Month Day Year **10/6/10/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **RANAY HABER** Signature *[Signature]* Month Day Year **10/6/1988**

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 *[Signature]* Signature *[Signature]* Month Day Year **10/6/1988**

116-417

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **C A C 0 0 0 0 8 8 8 6 1 0 0 0 6 2**
 Manifest Document No.

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
 C/O K. CHRISTE
 4. Generator's Phone (CA) **94403 (415) 571-2434**

A. State Manifest Document Number
37017911

B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
C A T 0 8 0 0 1 3 4 6 9

C. State Transporter's ID
504328
 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
C A T 0 0 0 6 4 6 1 1 7

G. State Facility's ID

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
				State	EPA/Other
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	DIT	5860 P	352	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a.
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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: **L. H. THOMPSON** Signature: *L. H. Thompson* Month Day Year: **10 6 1 0 8 8**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **KANAY HABER** Signature: *Kanay Haber* Month Day Year: **10 6 1 0 8 8**

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: Signature: Month Day Year:

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017911

120-445

87017912
 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		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 6 1		Manifest Document No. 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 PETROLEUM PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA 94403						A. State Manifest Document Number 07017912					
4. Generator's Phone (CA) 94403 (415) 571-2434						B. State Generator's ID HYHQ36015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9		C. State Transporter's ID B11104							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (707) 746-6699							
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239				10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID 000000046117							
						H. Facility's Phone (800) 222-2954							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
						No.		Type					
a. SOIL/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 1		45640		P		State 352	
b.												State	
c.												State	
d.												State	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124						K. Handling Codes for Wastes Listed Above							
						a. 03		b.		c.		d.	
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L H THOMPSON				Signature <i>L H Thompson</i>				Month Day Year 10/6/10/88					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name HAROLD BOURNET				Signature <i>Harold Bournet</i>				Month Day Year 10/6/10/88					
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 Judy Crawford				Signature <i>Judy Crawford</i>				Month Day Year 10/6/10/88					

120-445

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA C 0 0 0 0 8 8 8 6 1		Manifest Document No. 0 0 0 6 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 PETROLEUM PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA 94403 C/O K. CHRISTE (415) 571-2434						A. State Manifest Document Number 87017912							
4. Generator's Phone (CA) 94403 (415) 571-2434						B. State Generator's ID HYBIO31601156610							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number CA I T 0 8 0 0 1 3 4 6 9		C. State Transporter's ID 811104		D. Transporter's Phone (707) 746-6699					
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239						10. US EPA ID Number CA I T 0 0 0 6 4 6 1 1 7							
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. SOILW/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1		45640		P		State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 998 PETROLEUM HYDROCARBON 18 PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 <i>K. Thompson</i>						Signature <i>K. Thompson for K. Christie</i>						Month Day Year 10/6/1988	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Harold Bourget</i>						Signature <i>Harold Bourget</i>						Month Day Year 10/6/1988	
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													
Signature						Month Day Year							

87017912
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

117-423

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA C 0 1 0 1 0 1 0 1 3 8 8 6 1
 Manifest Document No. 0 1 0 1 0 6 4

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 PRODUCTS
 2000 ALAMEDA de la PULGUS C/O K. CHRISTE
 4. SAN MATEO, CA, 94403 (415) 571-2434

A. State Manifest Document Number
37017013

B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number CA T 0 8 0 0 1 3 4 6 9

C. State Transporter's ID
502258
 D. Transporter's Phone (707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
 35251 OLD SKYLINE BLVD.
 KETTLEMAN CITY, CA 93239
 10. US EPA ID Number CA T 0 0 0 6 4 6 1 1 7

G. State Facility's ID
CATT00064617

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

1 1 DIT 465/10 P
 State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **03**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L.H. THOMPSON** Signature *L.H. Thompson for K. Christie* Month Day Year **10/21/1989**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **William Taylor** Signature *William Taylor* Month Day Year **10/21/1989**

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 **Steve Pickett** Signature *Steve Pickett* Month Day Year **10/21/89**

87017913
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

FACILITY

117-423

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC1000088861010164**
 Manifest Document No. **010164**

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 PRODUCTS
2000 ALAMEDA de la PULGOS
C/O K. CHRISTE
 4. **SAN MATEO, (CA) 94403 (415) 571-2434**

A. State Manifest Document Number
37017313

B. State Generator's ID
HYBQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
802258
 D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
CAT000646117

G. State Facility's ID

H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
 12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a. **SOIL W/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY
 1 1 D T 4 1/2 P
 State **352**
 EPA/Other

b. State
 EPA/Other

c. State
 EPA/Other

d. State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. H. Thompson** Signature **L. H. Thompson for K. Christie** Month Day Year **10/21/98**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **William Taylor** Signature **William Taylor** Month Day Year **10/21/98**

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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 87017913
 GENERATOR
 TRANSPORTER
 FACILITY

119-407

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C1010101313131611** Manifest Document No. **010101615**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO (CA) 94403
(415) 571-2434
C/O K. CHRISTE

A. State Manifest Document Number
87511114

B. State Generator's ID
HYH036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number **1C1A1T018101313141519**

C. State Transporter's ID
802292

D. Transporter's Phone
(707) 746-6699

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number **1C1A1T010101514161117**

G. State Facility's ID
CA171010646117

H. Facility's Phone
(800) 222-2964

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. **SOIL w/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

12. Containers No. Type
1 11 DOT 318901CP

13. Total Quantity
352

14. Unit Wt/Vol
State 352

15. Waste No.
EPA/Other

b.

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

c.

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

d.

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

1. Additional Descriptions for Materials Listed Above
SOIL 994
PETROLEUM HYDROCARBON 13
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **031**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION 1374

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 **L. A. THOMPSON** Signature **L. A. Thompson for K. Christie** Month Day Year **10/26/1988**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **JACK MICHAELSON** Signature **Jack Michaelson** Month Day Year **10/26/1988**

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 **Richard** Signature **Richard** Month Day Year **10/26/88**

87017914
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

FACILITY

119-4407

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1C101010188861** Manifest Document No. **01010165**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
C/O K. CHRISTE
SAN MATEO, (CA) 94403
(415) 571-2434

A. State Manifest Document Number
87017914

B. State Generator's ID
HYH036015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.

6. US EPA ID Number
CA1T0900013469

C. State Transporter's ID
502292

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone
(707) 745-6699

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239

10. US EPA ID Number
CA1T10101545117

E. State Transporter's ID

F. Transporter's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol
 I. Waste No.

a. **SOIL w/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99%
PETROLEUM HYDROCARBON 1%
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L. L. THOMPSON** Signature *L. L. Thompson for K. Christie* Month Day Year **10/26/1978**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **JACK MICHAELSON** Signature *Jack Michaelson* Month Day Year **10/26/1978**

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 Signature Month Day Year

87017914
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

118-49-111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 6 1 0 0 0 5 6		Manifest Document No.		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 PRODUCTS 2000 ALAMEDA de la PULGOS SAN JATEO, CA, 94403 C/O K. CHRISTE (415) 571-2434						A. State Manifest Document Number 67017905							
4. Generator's Phone () 94403 (415) 571-2434						B. State Generator's ID H Y H Q 36016660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9		C. State Transporter's ID							
7. Transporter 2 Company Name						8. US EPA ID Number							
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLIN BLVD. KETTLEMAN CITY, CA 93239						10. US EPA ID Number C A T 0 0 0 6 4 5 1 1 7							
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. SOIL w/ PETROLEUM HYDROCARBON CALIFORNIA REGULATED MATERIAL ONLY						1 1 D T 4 6 5 7 4 C P						State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 998 PETROLEUM HYDROCARBON 18 PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L. A. Thompson						Signature L. A. Thompson						Month Day Year 10/11/88	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name K. R. Moore						Signature K. R. Moore						Month Day Year 10/11/88	
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						Signature						Month Day Year	

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017905

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC090033836100058**
 Manifest Document No. **118-49-11**

2. Page 1 of 1
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ALCO PETROLEUM PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
 4. Generator's Phone (415) 571-2434
 C/O K. CHRISTE

A. State Manifest Document Number
87017305

B. State Generator's ID
HYHQ3601560

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number **CAE080013469**

C. State Transporter's ID **50228**
 D. Transporter's Phone **(707) 746-6699**

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number **CAE0900346117**

G. State Facility's ID
CA720006YKYP

H. Facility's Phone **222-2964**
(800) XXXXX

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. SOIL w/ PETROLEUM HYDROCARBON CALIFORNIA REGULATED MATERIAL ONLY	1	1 D T 465 TAC P			State 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 993
PETROLEUM HYDROCARBON 13
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. **OB**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 **L.A. Thompson** Signature *L.A. Thompson* Month Day Year **10/6/11/88**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **R. J. Redmore** Signature *R. J. Redmore* Month Day Year **10/6/11/88**

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 **Steve Pickel** Signature *Steve Pickel* Month Day Year **10/6/11/88**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017305

9-409

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 0909088861		Manifest Document No. 010157		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 PRODUCTS 2000 ALAMEDA de la POLGUS SAN MATEO, CA 94403 C/O K. CRISTE (415) 571-2434				A. State Manifest Document Number 87017906		B. State Generator's ID HYB036015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC. C 3 7 0 1 8 0 0 1 3 4 6 9				6. US EPA ID Number		C. State Transporter's ID 8023869		D. Transporter's Phone (707) 746-6699					
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTYEMAN CITY, CA 93239 C 3 7 0 1 8 0 0 1 3 4 6 9				10. US EPA ID Number 1037010151461117		G. State Facility's ID Cationville 117		H. Facility's Phone (800) 222-2964					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. SOIL w/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 1 DIT		47040		P		State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. OB b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L. J. Thompson				Signature L. J. Thompson for K. CRISTE				Month Day Year 10/11/88					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JIM PANGELINAN				Signature Jim Pangelinan				Month Day Year 10/11/88					
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 St. Peter													
Signature St. Peter				Month Day Year 10/11/88									

87017906
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

Please print or type. (Form designed for use on a 2-pitch typewriter).

9-409

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1C00000888161		Manifest Document No. 01010157		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 PRODUCTS 2000 ALANEDA de la POLGOS SAN MATEO, CA 94403 (415) 571-2434 C/O K. CHRISTE				A. State Manifest Document Number 37017906		B. State Generator's ID HYH0360115660			
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.		6. US EPA ID Number CA1T0800113468		C. State Transporter's ID 8023869		D. Transporter's Phone (707) 746-6699		E. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239				10. US EPA ID Number CA1T0000646117		(800) 222-2964			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY				1 1 DIT		47040		State 352 EPA/Other	
b.								State EPA/Other	
c.								State EPA/Other	
d.								State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124				K. Handling Codes for Wastes Listed Above		a.		b.	
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374				c.		d.			
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 L. J. [Signature]				Signature [Signature]				Month Day Year 11 11 1988	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Jim Paroschian				Signature Jim Paroschian				Month Day Year 11 11 1988	
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				Signature				Month Day Year	

87017906
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

132-426

87017907
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA C 0 0 0 0 3 8 8 6 1 0 0 0 5 8		Manifest Document No. 132-426		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN JATEO, CA 94403						A. State Manifest Document Number 87017907							
4. Generator's Phone (CA) 94403 (415) 571-2434						B. State Generator's ID HYHQ36015660							
5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.				6. US EPA ID Number CA T 0 3 0 0 1 3 4 6 9		C. State Transporter's ID 81103		D. Transporter's Phone (707) 746-6699					
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 CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD KETILEMAN CITY, CA 93239						10. US EPA ID Number CA T 0 0 0 6 4 6 1 1 7		G. State Facility's ID CAT000646117					
						H. Facility's Phone (800) 222-2964							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. SOIL w/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1		46690 P				State 352	
b.												EPA/Other	
c.												State	
d.												EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 998 PETROLEUM HYDROCARBON 18 PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. Q3							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 <i>L.H. Thompson</i>				Signature <i>L.H. Thompson</i>		Month Day Year 1991/19/19							
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Hank Kee				Signature <i>Hank Kee</i>		Month Day Year 10/6/1998							
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 <i>St. Pickett</i>				Signature <i>St. Pickett</i>		Month Day Year 10/1/98							

132-42

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC00008886100058**
 Manifest Document No.

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
C/O K. CHRISTIE
 4. Generator's Phone () **(415) 571-2434**

A. State Manifest Document Number
87017907
 B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number
CAT080013469

C. State Transporter's ID
21103
 D. Transporter's Phone () **(707) 746-6699**

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number
CAT000646117

G. State Facility's ID
 H. Facility's Phone
(800) 222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. SOIL W/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY	1	DT	16.50	P	State 352 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 998
PETROLEUM HYDROCARBON 18
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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 *L. J. TAMMAY* Signature *L. J. Tammay* Month Day Year **10 9 1981**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Hank Kee** Signature **Hank Kee** Month Day Year **10 9 1981**

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 Signature Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017907

116-407

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 0 8 8 8 8 1		Manifest Document No. 0 0 0 6 8		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 PRODUCTS 2000 ALAMEDA de la PULGUS SAN MATEO, CA, 94403				C/O K. CHRISTE (415) 571-2434		A. State Manifest Document Number 87017917							
4. Generator's Phone				5. Transporter 1 Company Name UNIVERSAL ENGINEERING, INC.		6. US EPA ID Number C A T 0 8 0 0 1 3 4 6 9		B. State Generator's ID H Y H Q 3 6 0 1 5 6 6 0					
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (707) 746-6699		C. State Transporter's ID B 0 3 2 3					
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE BLVD. KETTLEMAN CITY, CA 93239				10. US EPA ID Number C A T 0 0 0 6 4 6 1 1 7		E. State Transporter's ID		F. Transporter's Phone					
						G. State Facility's ID C A T 0 0 0 6 4 6 1 1 7		H. Facility's Phone (800) 222-2964					
11. US DOT Description (Including Proper Shipping Name, Hazard, Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
a. SOIL w/ PETROLEUM HYDROCARBONS CALIFORNIA REGULATED MATERIAL ONLY						1 11 DIT		16440		P		State 352 EPA/Other	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above SOIL 99% PETROLEUM HYDROCARBON 1% PROFILE #G-62124						K. Handling Codes for Wastes Listed Above a. 03 b. c. d.							
15. Special Handling Instructions and Additional Information WEAR PROTECTIVE CLOTHING AS NEEDED STATION #374													
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 L. H. THOMPSON				Signature <i>[Signature]</i>				Month Day Year 10/1/89					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name RANDY HABER				Signature <i>[Signature]</i>				Month Day Year 10/1/89					
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 Stephen Pickett				Signature <i>[Signature]</i>				Month Day Year 10/1/89					

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

87017917

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAC0000385881** Manifest Document No. **000068**

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 PRODUCTS
2000 ALAMEDA de la PULGUS
SAN MATEO, CA 94403
 C/O K. CHRISTE
 4. Generator's Phone (415) 571-2434

A. State Manifest Document Number
87017917

B. State Generator's ID
HYHQ36015660

5. Transporter 1 Company Name
UNIVERSAL ENGINEERING, INC.
 6. US EPA ID Number **CA7080013469**

C. State Transporter's ID **807328**
 D. Transporter's Phone **(707) 746-6699**

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
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE BLVD.
KETTLEMAN CITY, CA 93239
 10. US EPA ID Number **CA70800546117**

G. State Facility's ID
 H. Facility's Phone **(800) 222-2964**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. | 13. Total Quantity | 14. Unit Wt/Vol | 15. Waste No.

a. **SOIL w/ PETROLEUM HYDROCARBONS**
CALIFORNIA REGULATED MATERIAL ONLY

1 | 11 DIT | 14710 | 2 | State **352**
 EPA/Other

b.

State
 EPA/Other

c.

State
 EPA/Other

d.

State
 EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 998
PETROLEUM HYDROCARBON 18
PROFILE #G-62124

K. Handling Codes for Wastes Listed Above
 a. b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE CLOTHING AS NEEDED
STATION #374

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
[Signature]

Signature
 Month Day Year
[Signature] 11/1/88

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name
KAROL HABER

Signature
 Month Day Year
[Signature] 11/1/88

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
 Signature
 Month Day Year

87017917
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

919



CALIFORNIA REGIONAL WATER

E. P. SO. W SEP 16 1991

RESNA
Working To Restore Nature

SEP 6 - 1991

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

QUALITY CONTROL BOARD TRANSMITTAL

SEP 6 - 1991
QUALITY CONTROL

TO: MR. LESTER FELDMAN
REGIONAL WATER QUALITY CONTROL
BOARD, SF BAY REGION
2101 WEBSTER STREET, SUITE 500
OAKLAND, CALIFORNIA 94612

DATE: 9/4/91
PROJECT NUMBER: 60025.02
SUBJECT: STATION 374 LOCATED AT
#6407 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA

FROM: LOU LEET
TITLE: GEOLOGIC TECHNICIAN

Comment:
• 9/4 OR.

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
 Shop drawings Prints Reports Specifications
 Letters Change Orders _____

COPIES	DATED	NO.	DESCRIPTION
1	9/4/91	0720ccar	FINAL-SECOND QUARTER 1991 GROUND-WATER MONITORING REPORT FOR THE ABOVE SUBJECT SITE.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files _____

REMARKS: THIS REPORT IS BEING FORWARDED TO YOU (VIA CERTIFIED MAIL)
AT THE REQUEST OF MR. CHUCK CARMEL OF ARCO PRODUCTS COMPANY.

Copies: 1 to AGS project file no. 60025.02

SAN JOSE READER'S FILE

LL: 1a

Revision Date: 10/15/90
File Name: TRANSMIT.PRJ

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 16, 1991

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

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

**RE: Work Plan for Subsurface Investigation and Remediation at
ARCO Station - 6407 Telegraph Avenue, Oakland CA 94509**

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the Work Plan and the Addendum One to Work Plan for Subsurface Investigation and Remediation at ARCO Station - 6407 Telegraph Avenue, Oakland, CA submitted May 15, 1991 by Applied GeoSystems. Based on this review the following areas of concern to this department must be addressed:

- * To date, acceptable definition of the groundwater contaminant plume has not been accomplished. The groundwater pollution plume has migrated off site in the down-gradient direction. The proposed installation of one additional groundwater monitoring well (MW-5) is acceptable. However, more wells must be installed if groundwater monitoring well (MW-5) is inadequate in defining the extent of the groundwater contaminant plume.
- * 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 and BTXE** 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 but must occur **at least quarterly**. Before each sampling event is begun, free product thickness and water level must be determined.
- * The groundwater contaminant plume has migrated off site in the down-gradient direction. A remediation plan must be implemented to contain the groundwater pollution plume from further migration off site. The overall effectiveness of the remediation system should be verified by an appropriate monitoring program. The remediation plan must include a time schedule for plan implementation and the expedient removal of any free product at the site. Free product must be monitored and the actual amount should be tabulated.
- * Permit requirements from other regulatory agencies which are applicable to the remediation system must be followed.

Mr. Chuck Carmel
August 16, 1991
Page 2 of 3

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 the soil remediation
10. Status of the 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
14. Soil boring/well logs of existing/new wells/borings signed by appropriate registered or certified professional

The manifest for the four underground storage tanks which were removed in June, 1988 or the bill of lading for any contaminated soil hauled off site have not been received by this department. Please submit these documents to this office.

You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. However, 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 also be submitted to :

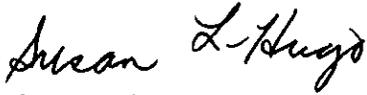
RWQCB
2101 Webster Street, 4th Floor
Oakland, CA 94612
Attn: Eddie So

Please be aware that any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Mr. Chuck Carmel
August 16, 1991
Page 3 of 3

Should you have any questions about this letter, please contact me
at (415) 271-4320.

Sincerely,



Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
✓ Eddie So, San Francisco Bay RWQCB
Howard Hatayama, State Department of Health Services
Joel Coffman, Applied GeoSystems (3315 Almaden Expressway,
Suite 34, San Jose, CA 95118)
✓ Mark Thompson, Alameda County District Attorney's Office
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

UST LEAK Date of Last Current
SITE UPDATE Review/Update April 15, 1991 Date July 15, 1991

SITE IDENTIFICATION

Name ARCO Service Station 374 Case No. _____
Address 6407 Telegraph Avenue Street
 Street Number Street
 Oakland 94609
City ZIP Code
County Alameda Substance Gasoline
Local Agency Alameda County Health Care Services Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON ACHCSA-Scott Seary

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 _____
_____ Preliminary 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 _____
_____ Case Referred to Regional Board Date _____
_____ Case Referred to Dept. of Health Services Date _____
_____ Case Closed Date _____

REMEDIAL ACTIONS

COMMENTS

ARCO previously performed onsite and offsite investigation for assessment of possible soil and/or ground-water contamination. Soil and ground water have been impacted by gasoline hydrocarbons. Assessment report to be issued during first quarter of 1991. ARCO is currently monitoring water levels monthly and water quality quarterly.

Pump test performed on 4/11/91 to evaluate future remediation. Report on Pump Test Results to be issued on third quarter 1991. Work Plan and Addendum One for subsurface investigations and remediation submitted May 15, 1991.

Please refer to the attached page for a listing of previously submitted reports which document site history.

RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)

Name _____
Contact _____ Phone (____) _____
Address _____
 Street Number Street
 City State ZIP Code

REPORTDATECONSULTANT

Work Plan and Addendum One to Work
Plan for Subsurface Investigation and
Remediation.
AGS 60025.03

5/15/91

RESNA/Applied
GeoSystems

Letter Report on Quarterly Ground-
Water Monitoring, First Quarter 1991
at ARCO 374, Oakland, CA
AGS 60025-2

4/16/91

RESNA/Applied
GeoSystems

Letter Report on Quarterly Ground-
Water Monitoring, Fourth Quarter 1991
at ARCO 374, Oakland, CA
AGS 60025-1

3/26/91

Applied
GeoSystems

Letter Report on Quarterly Ground-
Water Monitoring, Third Quarter 1990
at ARCO 374, Oakland, CA
AGS 60025-1

8/30/90

Applied
GeoSystems

Letter Report on Purging and Sampling
Tank Pit Monitoring Well at
ARCO Station No. 374, Oakland, CA
AGS 18039-4

1/5/89
GeoSystems

Applied

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

6/15/88

Applied
GeoSystems

Work Plan, Supplemental Subsurface
Environmental Investigation at
ARCO Station 0374, Oakland, CA
AGS 018039-3W

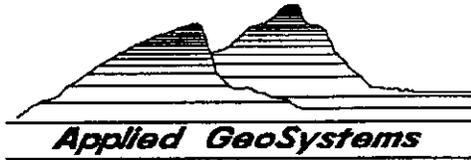
9/11/88

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcrataz Property, Oakland, CA

5/27/86

AquaScience
Engineers



TRANSMITTAL

File

3315 Almaden Expressway, Suite 34
 San Jose, California 95118
 (408) 264-7723 FAX (408) 264-2435

TO: MR. LESTER FELDMAN DATE: 4/16/91
REGIONAL WATER QUALITY CONTROL BRD. PROJECT NUMBER: AGS 60025-2
SAN FRANCISCO BAY REGION SUBJECT: ARCO STATION 374, 6407
1800 HARRISON STREET, 7TH FLOOR TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
OAKLAND, CALIFORNIA 94612

FROM: GREG BARCLAY
 TITLE: GENERAL MANAGER

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

Shop drawings Prints Reports Specifications

Letters Change Orders _____

COPIES	DATED	NO.	DESCRIPTION
1	4/16/91	60025-2	FINAL FIRST QUARTER 1991 GROUND-WATER MONITORING REPORT FOR THE ABOVE SITE.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files _____

REMARKS: THIS REPORT HAS BEEN FORWARDED TO YOU AT THE REQUEST
OF MR. CHUCK CARMEL OF ARCO PRODUCTS COMPANY.

Copies: 1 to AGS project file no. 60025-2

SAN JOSE READER'S FILE

*Revision Date: 10/15/90
 *File Name: TRANSMT.PRJ

01

UST LEAK Date of Last Current
SITE UPDATE Review/Update January 15, 1991 Date April 15, 1991

SITE IDENTIFICATION

Name ARCO Service Station 374 Case No. _____
Address 6407 Telegraph Avenue
 Street Number Street
City Oakland 94609 ZIP Code
County Alameda Substance Gasoline
Local Agency Alameda County Environmental Health Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON ACEHD-Scott Seary

CASE TYPE

_____ Undetermined _____ Soil Only _____ Ground Water _____ Drinking Water

STATUS (Date indicates when case moved into status)

_____ No Action Taken	
_____ Leak Being Confirmed	Date _____
_____ Preliminary 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 _____
_____ Case Referred to Regional Board	Date _____
_____ Case Referred to Dept. of Health Services	Date _____
_____ Case Closed	Date _____

REMEDIAL ACTIONS

Pump test on 4/11/91 to evaluate future remediation.

COMMENTS

ARCO previously performed onsite and offsite investigation for assessment of possible soil and/or ground-water contamination. Soil and ground water have been impacted by gasoline hydrocarbons. Assessment report to be issued during first quarter of 1991. ARCO is currently monitoring water levels monthly and water quality quarterly. ARCO to prepare Work Plan for additional investigation at the site during second quarter 1991.

Please refer to the attached page for a listing of previously submitted reports which document site history.

RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)

Name _____
Contact _____ Phone () _____
Address _____
 Street Number Street
 City State ZIP Code

REPORT

DATE

CONSULTANT

Letter Report on Quarterly Ground-
Water Monitoring, Fourth Quarter 1991
at ARCO 374, Oakland, CA
AGS 60025-1

3/26/91

Applied
GeoSystems

Letter Report on Quarterly Ground-
Water Monitoring, Third Quarter 1990
at ARCO 374, Oakland, CA
AGS 60025-1

8/30/90

Applied
GeoSystems

Letter Report on Purging and Sampling
Tank Pit Monitoring Well at
ARCO Station No. 374, Oakland, CA
AGS 18039-4

1/5/89
GeoSystems

Applied

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

6/15/88

Applied
GeoSystems

Work Plan, Supplemental Subsurface
Environmental Investigation at
ARCO Station 0374, Oakland, CA
AGS 018039-3W

9/11/88

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcrataz Property, Oakland, CA

5/27/86

AquaScience
Engineers

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 Arco #374 Today's Date 3/29/91

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 6407 Telegraph Ave.
 City Oakland Zip 94609 Phone 658-7508

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(i)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

___ 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)

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 sols |
| | 3) Daily Vadose
One time sols
Annual tank test |
| | 4) Monthly Groundwater
One time sols |
| | 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 | ___ 7. Precip Tank Test 2643 |
| | 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 | |
| Date: _____ | |
| ___ 14. As Built 2635 | |
| Date: _____ | |

Comments:

Three double-walled underground tanks installed in 1988. There are nine probes in the tank system, three for each tank: (1) annular space probe; (2) sump probe; and (3) water probe. The annular and sump probes appear to be actuated only by hydrocarbons, because a test of one sump probe (pumping it in water) did not cause the alarm to sound.

Alarm panel appears functional, except that the "alarm" button light is always on; it should always be off, unless there is a problem. This may be the result of incorrect wiring.

Rev 6/88

II, III

Contact: SANTOSH SUD
 Title: OWNER
 Signature: [Signature]

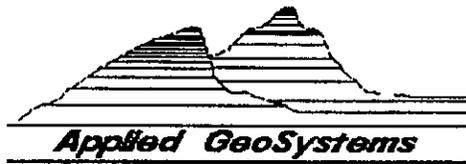
Inspector: _____
 Signature: [Signature]

6407 Telegraph - Tank monitoring status

- Pre-1988 (during operation of old tanks) :
 - no records of precision tests on file
 - no quarterly reports on file (but dealer says these were done - he's been there for 5 yrs.)
- For new tanks :
 - no as-built on file
 - no written routine monitoring plan, and no written spill contingency plan on file

INSPECTION 3/29/91 :

No violations to report, except that monitoring panel appears to be wired incorrectly. (Red light on "alarm" button always on; it should be off unless there is a problem.)



4/2/91

TRANSMITTAL

42501 Albrae Street, Suite 100, Fremont, California 94538
Phone: (415) 651-1906
Fax: (415) 651-8647

TO: Mr. Richard Heitt
California Regional Water
Quality Control Board
1800 Harrison Street, Suite 700
Oakland, California 94612

DATE: 3/29/91
PROJECT NUMBER: 18039-3
SUBJECT: Executive Report of Limited
Subsurface Environmental
Investigation

FROM: James A. Perkins/Project Manager

WE ARE SENDING YOU:

COPIES DATED	DESCRIPTION
1 3/27/91	Executive Report of Limited Subsurface Environmental Investigation at ARCO Station No. 374, 6407 Telegraph Avenue, Oakland, California.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files

REMARKS:

Copies: 1 to AGS project file no. 18039-3

ser 
Ashraf Mirza, Branch Manager

01

UST LEAK Date of Last Current
SITE UPDATE Review/Update October 15, 1990 Date January 15, 1991

SITE IDENTIFICATION

Name ARCO Service Station 374 Case No. _____
Address 6407 Telegraph Avenue
Street Number Street
Oakland 94609
City ZIP Code
County Alameda Substance _____
Local Agency Alameda County Environmental Health Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON ACEHD

CASE TYPE

_____ Undetermined _____ Soil Only X Ground Water _____ Drinking Water

STATUS (Date indicates when case moved into status)

_____ No Action Taken
_____ Leak Being Confirmed Date _____
_____ Preliminary 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 _____
_____ Case Referred to Regional Board Date _____
_____ Case Referred to Dept. of Health Services Date _____
_____ Case Closed Date _____

REMEDIAL ACTIONS

COMMENTS

ARCO previously performed onsite and offsite investigation for assessment of possible soil and/or ground-water contamination. Soil and groundwater have been impacted by hydrocarbons. Assessment report to be issued during first quarter of 1991. ARCO is currently monitoring water levels monthly and water quality quarterly.

Please refer to the attached page for a listing of previously submitted reports which document site history.

RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)

Name _____
Contact _____ Phone () _____
Address _____
Street Number Street
City State ZIP Code

REPORT

DATE

CONSULTANT

Letter Report on Quarterly Ground-
Water Monitoring, Third Quarter 1990
at ARCO 374, Oakland, CA
AGS 60025-1

8/30/90

Applied
GeoSystems

Letter Report on Purging and Sampling
Tank Pit Monitoring Well at
ARCO Station No. 374, Oakland, CA
AGS 18039-4

1/5/89
GeoSystems

Applied

Limited Environmental Site
Assessment at ARCO 374, Oakland, CA
AGS 18039-1

6/15/88

Applied
GeoSystems

Work Plan, Supplemental Subsurface
Environmental Investigation at
ARCO Station 0374, Oakland, CA
AGS 018039-3W

9/11/88

Applied
GeoSystems

Report Soil and Water Sampling and
Determination of Hydrocarbon Contamination
from Tank Removal at the Telegraph and
Alcatraz Property, Oakland, CA

5/27/86

AquaScience
Engineers

HAZARDOUS MATERIALS
 Site Brief for UNDERGROUND TANKS
 for the City of Alameda

ALAMEDA COUNTY
 as of 12/28/90
 pg 1

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 * 813 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-
* 2112 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-
1794 C Tharco T81053	2222 Grant Ave. San Lorenzo, CA 94580	1 I:08/16/88 F:-0-
779 C Arco Station #00608 T61043	17601 Hesperian Blvd. San Lorenzo, CA 94580	4 I:09/06/88 F:-0-

Site Brief for A B - 2 1 8 5
for the city of Alameda

printed: 12/28/90
page: 1

ABID/BillID	Name of Site	Site Address	Zip	SysEntry	S
/L71107	Arco Station #02112	1260 Park St.	501	10/24/90	C
/L91227	Arco Station #02035	1001 San Pablo Ave.	706	08/14/89	C
658/HL7111	Arco Station #04977	2770 Castro Valley Blvd.	546	08/14/89	C
/HL7112	Arco Station #02152	22141 Center St.	546	08/14/89	C
1053/HL7114	Arco Station #06041	7249 Village Pkwy.	568	06/04/90	C
/LC1217	Arco Station #05387	20200 Hesperian Blvd.	541	06/04/90	C
/L22223	Airport Arco	20450 Hesperian Blvd.	541	08/01/89	C
/	Springtown Arco	909 Bluebell St.	550		P
/L41112	Arco Station #00771	899 Rincon Ave.	550	07/28/89	C
/L81123	Arco Station #02185	9800 E. - 14th St.	603	08/14/89	C
1130/L91386	Freeway Arco	2740 - 98th Ave.	608	09/18/89	C
/L81146	Arco Station #02169	889 W. Grand Ave.	607	08/14/89	C
/L81176	Arco Station #04494	566 Hegenberger Rd.	621	08/14/89	C
1038/	High St. Arco	2951 High St.	619	03/21/89	P
/L81178	Arco Station #04931	731 W. MacArthur Blvd.	609	06/04/90	C
/L81128	Arco Station #00276	10600 MacArthur Blvd.	605	11/20/89	C
851/L12017	Mountain Blvd. Arco Servi	2844 Mountain Blvd.	602	11/30/90	M
/L81188	Arco Station #02107	3310 Park Blvd.	610	08/14/89	C
/L81295	Sunshine Petroleum, Inc.	6211 San Pablo Ave.	608	12/28/90	M
/HL8112	Arco Station #06002	6235 Seminary Ave.	605	08/31/90	C
/L81130	Arco Station #06148	5131 Shattuck Ave.	609	06/04/90	C
/L81179	Arco Station #00374	6407 Telegraph Ave.	609	08/14/89	C
744/HL7116	Arco Station #02111	1156 Davis St.	577	08/14/89	C
/HL7118	Arco Station #00601	712 Lewelling Blvd.	579	08/14/89	C
1794/LA1469	Tharco	2222 Grant Ave.	580	07/28/89	C
779/HL7119	Arco Station #00608	17601 Hesperian Blvd.	580	08/14/89	C

Arco Stati

Report Total : 26

Status Codes: C=Current/Part2 M=Current/Part1 P=awaiting busPla
B=ready for Billing A=ready for Billing I=Inactive

*6211 San Pablo Ave
No 467 MP.*

ARCO PRODUCTS COMPANY
 FACILITY LIST - LOS ANGELES REGION
 BY STATE COUNTY
 10/24/1991, 09:20 AM

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE	ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA 94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA 94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA 94550	3RD ST/S LIVERMORE A	415-449-1448
00608	JAIME & LEONORA ABADAM <i>Sgn. ✓</i>	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00	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>Sgn. ✓</i>	1260 PARK STREET	ALAMEDA	CA 94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA 94546	GROVE/CENTER ST	415-581-1268
02169	RAMESH SOOD	889 W GRAND AVE	OAKLAND	CA 94607	MARKET/W GRAND AVE	415-465-4450
02185	B J A INC	9800 E 14TH ST	OAKLAND	CA 94603	98TH/E 14TH	415-568-0590
04494	KHALIL N ROOSHAN <i>Sgn. ✓</i>	566 HEGENBERGER RD.	OAKLAND	CA 94605	EDES/HEGENBERGER RD	415-569-7561
04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD	OAKLAND	CA 94611	WEST/W MACARTHUR BLV	415-658-5000
04977	MICHAEL SERDY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	WISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL <i>Sgn. ✓</i>	6235 SEMINARY AVENUE	OAKLAND	CA 94605	HWY 580/SEMINARY	415-633-1042
06041	RONALD E TEUTSCH	7249 VILLAGE PARKWAY	DUBLIN	CA 94566	AMADOR/VILLAGE PKWY	415-828-3163
06113	PRESTIGE STATIONS INC 5158	785 E STANLEY BLVD	LIVERMORE	CA 94550	MURRIETTA/E STANLEY	415-449-2024
06148	JIN H KANG	5131 SHATTUCK AVE.	OAKLAND	CA 94609	52ND/SHATTUCK	415-654-3461

ARCO Products Company
Monitoring and Response Plans

County Alameda - Public Health

Facility	Product Tanks		Product Lines		ELECTRONIC Tank Monitor	Probe in Sump	LINE Leak Detector	Used Oil Tank		Monitoring Plan
	DW	SW	DW	SW				DW	SW	
600 MacArthur Blvd. Oakland	PS 2116	✓		✓	✓	✓	✓			I
640 Telegraph Ave. Oakland	SH 314	✓		✓	✓	✓	✓			I
86 S. Livermore Ave.	SH 498	✓			✓		✓			IVA
7601 Hesperian Blvd. S.F.	PE 1008 5XV	✓		✓	✓	✓	✓	✓		IA
399 Rincon Ave. L.A.	SH 771		✓		✓		✓			III
801 San Pablo Albany	LS 2035	✓		✓	✓	✓	✓			I
310 Park Blvd. Oak	PS 2107	✓		✓	✓		✓			II B
56 Alameda St. S.F.	2111		✓		✓		✓		✓	III, V
260 PARK ST. ALAMEDA	SH 2117 5X	✓		✓	✓	✓	✓			I
2141 Center St. C.V.	SS 2152	✓		✓	✓	✓	✓			I
19 W. GRAND AVE. OAK	PB 2169		✓		✓		✓			III
800 E 14th St. Oakland	BC 2185		✓		✓		✓			III
4 Hegenberg Dr. Oak	BC 4494 5X		✓		✓		✓			III
316 4th Oakland	SH 4931		✓		✓		✓			III
2770 Central Valley Blvd.	SB 4977		✓		✓		✓			III
235 Seminary Blvd. Oak	PS 6002 5XV		✓		✓		✓			III
249 Village Parkway Dublin	RA 6041		✓		✓		✓			III
185 E. Stanley Liv.	SH 6113	✓			✓		✓			IVA
5131 Shattuck Ave. Oak	SH 6148		✓		✓		✓			III

SH-7
PS-2
LS-1
PE-1

IB-1
BC-2
RA-1
SS-2

* # 566 Hegenberg Rd - approved clean & installation plan
site contaminated.

By permit Remediation

SUMMARY REPORT

Third Quarter 1990

ARCO Service Station 374
6407 Telegraph Avenue
Oakland, California
Alameda County

BACKGROUND

For site history prior to 1990 refer to the October-December 1989 Quarterly Summary Report issued in January 1990.

- o Report describing drilling, well installation, soil and ground-water analyses, hydrogeologic conditions, an assessment of the beneficial use of the ground water, and the results of a records search to identify any potential offsite sources of hydrocarbons, is in draft form. Ground-water sampling of four existing monitoring wells was performed in January 1990.
- o Records on file with state and local regulatory agencies indicate a tank leak occurred offsite near 6392 Telegraph Avenue, hydraulically upgradient of the project site, at some time before March 17, 1986. Available records do not indicate that any additional investigation was performed at this potential offsite source.
- o Quarterly monitoring was performed on August 7, 1990. The quarterly monitoring report is in draft form. See Plate 1 for locations of monitoring wells.

SOIL CONDITIONS

No change from last quarter.

QUARTERLY GROUND-WATER MONITORING

No change from last quarter. Refer to Table 1 for third quarter 1990 laboratory results of water samples collected from wells MW-1 through MW-4 at the site.

STATUS SUMMARY: REMEDIATION

- o No change from last quarter.

ANTICIPATED WORK FOR THE NEXT QUARTER

- o Submit report of onsite subsurface environmental investigation to RWQCB and ACHA.
- o Continue quarterly monitoring and reporting.
- o Request that the ACHA require an environmental investigation of the tank leak which occurred at 6392 Telegraph.

TABLE 1
 CUMULATIVE RESULTS OF ANALYSIS OF WATER SAMPLES
 ARCO Service Station 374
 6407 Telegraph Avenue
 Oakland, California
 (Page 1 of 3)

Date/Well	TPHg	TPHd	B	T	E	X	TOG
<u>MW-1</u>							
07/21/89	33	NA	0.77	1.6	1.5	5.0	NA
08/30/89	<20	NA	<0.50	<0.50	<0.50	<0.50	NA
10/04/89	<20	NA	<0.50	<0.50	<0.50	<0.50	NA
01/10/90	<20	NA	<0.50	<0.50	<0.50	<0.50	NA
08/07/90	<20	NA	<0.50	<0.50	<0.50	<0.50	NA
<u>MW-2</u>							
07/21/89	4200	NA	280	210	38	24	NA
08/30/89	4200	NA	160	260	45	240	NA
10/04/89	4300	NA	860	300	29	330	NA
01/10/90	8000	NA	890	710	120	760	NA
08/07/90	6000	NA	880	76	25	80	NA
<u>MW-3</u>							
07/21/89	430	NA	9	4.8	<0.50	50	NA
08/30/89	1200	NA	85	46	8.4	55	NA
10/04/89	7000	NA	580	900	120	670	NA
01/10/90	940	NA	130	59	21	73	NA
08/07/90	2300	NA	180	64	59	120	NA

See notes on page 2 of 3

TABLE 1
 CUMULATIVE RESULTS OF ANALYSIS OF WATER SAMPLES
 ARCO Service Station 374
 6407 Telegraph Avenue
 Oakland, California
 (Page 2 of 3)

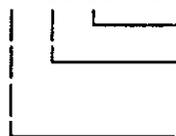
Date/Well	TPHg	TPHd	B	T	E	X	TOG
MW-4							
07/21/89	8700	NA	720	360	120	640	NA
08/30/89	7300	NA	630	220	72	320	NA
10/04/89	21000	NA	2300	1300	280	1300	NA
01/10/90	4300	NA	470	250	63	430	NA
08/07/90	69000	28000	8700	4200	540	4600	<5000

Results in micrograms per liter (ug/L) = parts per billion (ppb).
 TPHg: Total petroleum hydrocarbons as gasoline by EPA method 8015.
 TPHd: Total petroleum hydrocarbons as diesel by EPA method 3550/3510.
 B: Benzene, T: Toluene, E: Ethlybenzene, T: Total Xylene isomers
 BTEX: Measured by EPA method 8020/602.
 TOG: Measured by Standard Method 503A/E.
 <: Results reported as less than the detection limit.

NA: Not analyzed

Sample designation:

W-35-MW5



Monitoring well number
 Sample depth in feet below top of well casing
 Water sample

TABLE 1
CUMULATIVE RESULTS OF ANALYSIS OF WATER SAMPLES
ARCO Service Station 374
6407 Telegraph Avenue
Oakland, California
(Page 3 of 3)

Date/Well HALOGENATED VOLATILE ORGANICS

MW-4

07/31/90 Nondetectable (<1 ppb)
 for thirty one
 compounds tested

Results in micrograms per liter (ug/L) = parts per billion (ppb).
Halogenated Volatile Organics: Measured by EPA method 601/8010.
<: Results reported as less than the detection limit.

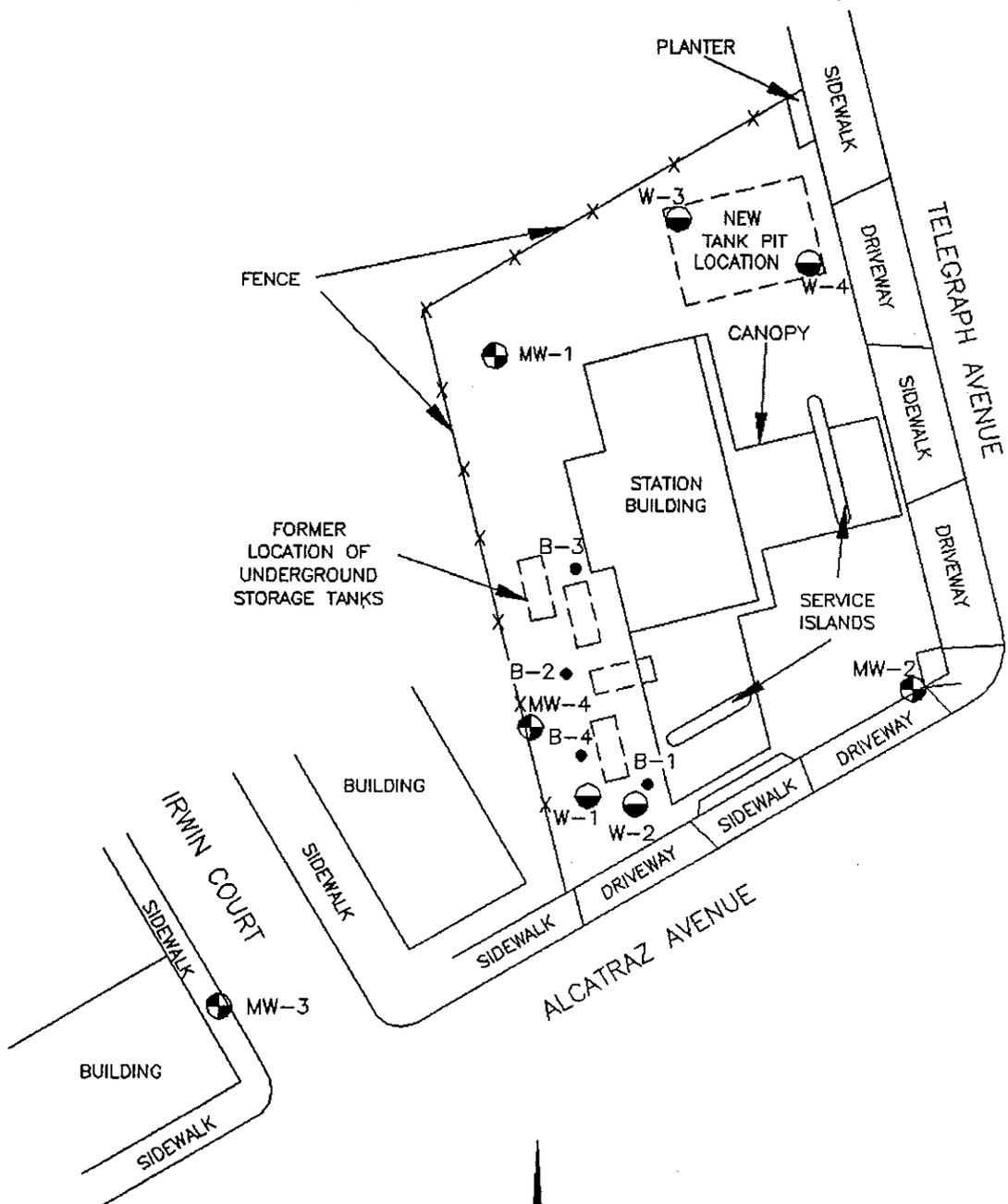
NA: Not analyzed

Sample designation:

W-35-MW5

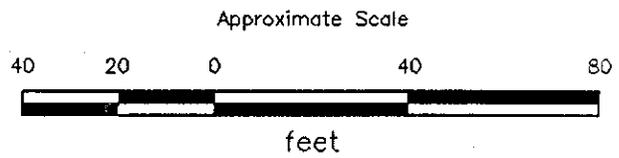


Monitoring well number
Sample depth in feet below top of well
casing
Water sample



EXPLANATION

- MW-4  = Monitoring well installed by (Applied GeoSystems, 1989)
- W-4  = Tank pit monitoring well installed by (Applied GeoSystems, 1988)
- B-4  = Soil boring (Applied GeoSystems, 1988)



Source: Surveyed by Ron Archer
Civil Engineer, Inc.



PROJECT 19011-1

**GENERALIZED SITE PLAN
ARCO Station 374
6407 Telegraph Avenue
Oakland, California**

**PLATE
1**

SEE ME AL

SUMMARY REPORT
 First Quarter 1990

ARCO Service Station No. 374
 6407 Telegraph Avenue
 Oakland, California 94609
 Alameda County

AL

BACKGROUND

For site history prior to 1990 refer to the October-December 1989 Quarterly Summary Report issued in January 1990.

- o Report describing drilling, well installation, soil and ground-water analyses, hydrogeologic conditions, an assessment of the beneficial use of the ground water, and the results of a records search to identify any potential offsite sources of soil or ground-water hydrocarbon contamination, has been drafted and will be submitted to ARCO shortly. Quarterly ground-water sampling of four existing monitoring wells was performed in January 1990.
- o Records on file with state and local regulatory agencies indicate a tank leak occurred at 6392 Telegraph Avenue, in the upgradient ground-water flow direction, at some time before March 17, 1986. Available records do not indicate that any additional investigation was performed. Potentially, this event could have adversely impacted soil and ground water quality beneath ARCO Station 374.

SOIL CONDITIONS

- o Laboratory analyses of soil samples collected from borings onsite indicated detectable hydrocarbon compounds of TPHg and BTEX. TPHg levels range from nondetectable to 560 ppm (Table 1). See Plate 1 for soil boring locations.

QUARTERLY GROUND-WATER MONITORING

- o Quarterly monitoring and sampling of wells in January 1990 detected hydrocarbon compounds (BTEX) and TPHg levels ranging from nondetectable to 8 ppm (Table 2). Ground-water flow direction has consistently been toward the southwest.
- o Quality of native ground water is relatively poor based on results of a general mineral analysis (Table 3). Four constituents exceed maximum contaminant level

established for secondary drinking water supplies and four other constituents (for which MCL's have not been established) have levels considered significant by the USGS for drinking water.

- o { An estimate from one onsite well suggests the saturated zone beneath the site is not capable of producing an average sustained yield of 200 gpd, as is required for a water source to be considered suitable as a domestic or municipal water supply (California State Water Resources Control Board Resolution 88-63).

STATUS SUMMARY: REMEDIATION

- o Assess feasibility of using the former tank-pit as a French drain for collecting contaminated ground water.

ANTICIPATED WORK FOR THE NEXT QUARTER

- o Submit formal report of subsurface environmental investigation to state and local regulatory agencies.
- o Perform quarterly monitoring and ground-water sampling.
- o Petition the Alameda County Health Care Services Agency to request an environmental investigation of the tank leak which occurred at 6392 Telegraph.

TABLE 1
 ANALYTICAL RESULTS OF SOIL SAMPLES
 ARCO Service Station 374
 6407 Telegraph
 Oakland, California
 (July 1989)

Sample Number	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
S-3.5-B1	<2	<0.05	<0.05	<0.05	<0.05
S-8.5-B1	60	0.66	2.9	0.99	5.2
S-3.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-13.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-18.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-3.5-B3	<2	<0.05	<0.05	<0.05	<0.05
S-3.5-B4	<5.0	<0.05	<0.05	<0.05	<0.05
S-8.5-B4	310	0.36	4.9	5.2	22
S-13.5-B4	560	12	5.8	12	49
S-0731-B4 * (1a,b,c,d)	21	<0.05	<0.05	<0.05	0.37

Results are in parts per million (ppm)
 TPHg = total petroleum hydrocarbons as gasoline
 < = below the reporting limits of the analytical method.
 * = signifies composite sample following aeration.
 Sample designation = S-13.5-B4

┌─── Boring number
 │
 └─── Sample depth in feet
 ┌─── Soil sample

TABLE 2
 ANALYTICAL RESULTS OF WATER SAMPLES
 ARCO Service Station 374
 6074 Telegraph Avenue
 Oakland, California

Sample Number	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1					
7/21/89	0.033	0.00077	0.0016	0.0015	0.0050
8/30/89	<0.020	<0.00050	<0.00050	<0.00050	<0.00050
10/04/89	<0.020	<0.00050	<0.00050	<0.00050	<0.00050
1/10/90	<0.020	<0.00050	<0.00050	<0.00050	<0.00050
MW-2					
7/20/89	4.2	0.28	0.21	0.038	0.024
8/30/89	4.2	0.16	0.26	0.045	0.24
10/04/89	4.3	0.86	0.30	0.029	0.33
1/10/90	8.0	0.89	0.71	0.12	0.76
MW-3					
7/21/89	0.43	0.0090	0.0048	<0.00050	0.050
8/31/89	1.2	0.085	0.046	0.0084	0.055
10/04/89	7.0	0.58	0.90	0.12	0.67
1/10/90	0.94	0.13	0.059	0.021	0.073
MW-4					
7/21/89	8.7	0.72	0.36	0.12	0.64
8/30/89	7.3	0.63	0.22	0.072	0.32
10/04/89	21	2.3	1.3	0.28	1.3
1/10/90	4.3	0.47	0.25	0.063	0.43

Results are in parts per million (ppm)
 TPHg = total petroleum hydrocarbons as gasoline
 < = below the reporting limits of the analytical method.

TABLE 3
 RESULTS OF GENERAL MINERAL ANALYSIS
 ARCO Service Station 374
 6074 Telegraph Avenue
 Oakland, California

Constituent	MW-1	SMCL/COS	
Bicarbonate Alkalinity	180	150-200 *	+
Calcium	130	25-50 *	+
Carbonate Alkalinity	<0.5	150-200 *	
Chloride	330	250-500	+
Copper	<0.5	1.0	
Hardness	520	>180=v.hard *	+
Hydroxide Alkalinity	<0.001	NA	
Iron	0.23	0.3	
Magnesium	48	NA	
Manganese	0.061	0.05	+
pH	6.9	6.5-8.5	
Sodium	100	20-170 *	+
Specific Conductance	1,600	900-1,600	+
Sulfate	120	250-500	
Surfactants	<0.02	0.5	
Total Dissolved Solids	1,000	500-1,000	+
Zinc	0.011	5.0	

Results and Values in parts per million with exception of Specific Conductance (micro-mhos/cm or micro-Siemens/cm)

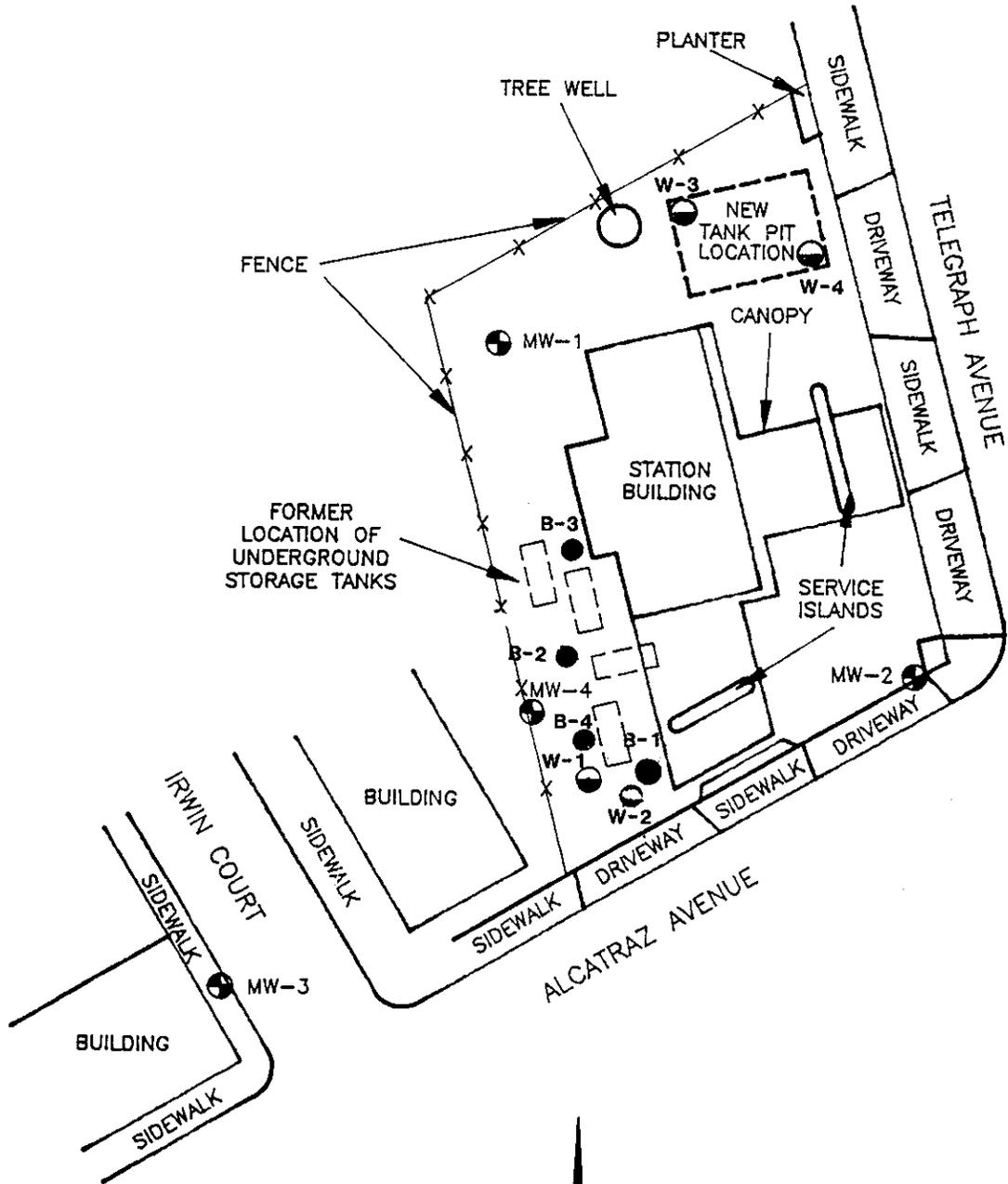
SMCL = Maximum Contamination Level for Secondary Drinking Water Standards established by Title 40 of the Code of Federal Regulations Section 143 and Title 22 Section 64445.1 of the California Administrative Code.

COS = Concentration of Significance as defined in USGS Water Supply Paper 2220, page 65, 1983.

* = No SMCL values established for this constituent. Signifies concentrations considered significant as described in the United States Geological Survey Water Supply Paper 2220.

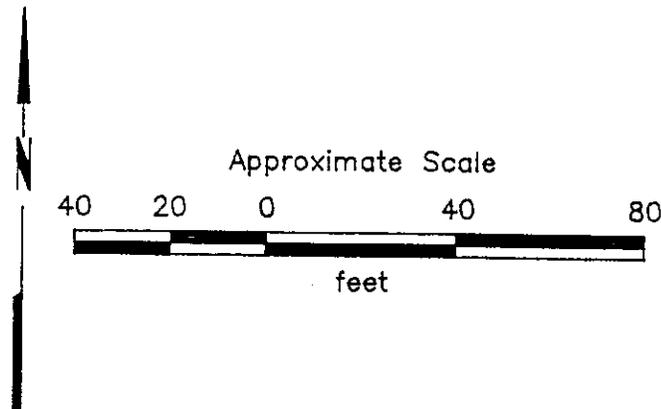
+ = Constituent in ground water which exceeds established SMCL or COS values for drinking water.

NA = Regulatory information not available



- B-4 ● = Soil boring
- MW-4 ● = Monitoring well installed by Applied GeoSystems (July 1989)
- M-2 ● = Tank pit monitoring well installed by Applied GeoSystems (1988)

Source: Surveyed by Ron Archer
Civil Engineer, Inc.



GENERALIZED SITE PLAN
ARCO Station No. 374
6407 Telegraph Avenue
Oakland, California

PLATE

1

PROJECT

19011-1

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)

28 March 1990

Kyle Christie
Arco Products Company
2000 Alameda de las Pulgas
P.O. Box 5811
San Mateo, CA 94402

Subject: Site Investigation at Arco Station #374, 6407 Telegraph
Avenue, Oakland.

Dear Mr. Christie:

On the 27th of March, 1990, a Pacific Gas and Electric Company crew installing telephone poles along Alcatraz Avenue in Oakland encountered a pocket of gasoline contaminated soil underlying the sidewalk immediately adjacent to your property. Noticeable gasoline odors were detected emanating from soil excavated from a depth of seven feet below the grade surface. A survey of this soil with a portable explosimeter indicated that explosive vapors equalling forty percent of the lower explosive limit were being produced. These observations indicate that a significant soil contamination problem may exist at this site and that further investigation is required.

Our records indicate that in 1988 four underground storage tanks were removed from this site and that evidence of leakage from at least one of these tanks was observed. A soil/ground water investigation plan prepared for this site by Applied Geosystems Incorporated (AGS Workplan 018039-3W) was approved for implementation by this agency on the 14th of June 1989. The pocket of contaminated soil discovered by the PG & E crew would appear to be in close proximity to locations proposed in the Applied Geosystems Plan as sites for soil borings and a ground water monitoring well installation. To date, this office has received no further communication from either yourself or Applied Geosystems Incorporated regarding any additional soil and ground water data derived for this site.

If these proposed actions have been implemented, please submit all the data so derived to this office for review. If these actions have not yet been implemented then please do so. Continuation of the PG & E installation project must be delayed pending the evaluation of the nature and extent of the soil contamination at this site.

Kyle Christie
Arco Products Company
2000 Alameda de las Pulgas
P.O. Box 5811
San Mateo, CA 94402
Re. 6407 Telegraph Ave, Oakland
28 March 1990
Page 2 of 2

If you have any questions concerning this matter, please contact me
at (415) 271-4320.

Sincerely,



Dennis J. Byrne
Hazardous Materials Specialist

cc: Lester Feldman, SFBRWQCB
Doug Krause, DOHS
Rafat Shahid, Assistant Director, Alameda County Department of
Environmental Health
Jerry Blueford, Fire Marshal, Oakland Fire Prevention Bureau
Cliff Ray, Electric Construction Supervisor, PG & E
K. William Howell, Applied Geosystems Incorporated
Susan Hugo, Hazardous Materials Specialist

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Arco Today's Date 3/27/90
 Site Address 6907 Telegraph Ave EPA ID# _____
 City Oakland Zip 94609 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? **Y N**
 Hazardous Waste generated per month? _____

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- | | | |
|-----------------------------------|--|---------|
| | <input type="checkbox"/> 1. Waste ID | * 66471 |
| | <input type="checkbox"/> 2. EPA ID | 66472 |
| | <input type="checkbox"/> 3. > 90 days | 66508 |
| | <input type="checkbox"/> 4. Label dates | 66508 |
| | <input type="checkbox"/> 5. Biennial | 66493 |
| Manifest | <input type="checkbox"/> 6. Records | 66492 |
| | <input type="checkbox"/> 7. Correct | 66484 |
| | <input type="checkbox"/> 8. Copy sent | 66492 |
| | <input type="checkbox"/> 9. Exception | 66484 |
| | <input type="checkbox"/> 10. Copies Rec'd | 66492 |
| Misc. | <input type="checkbox"/> 11. Treatment | 66371 |
| | <input type="checkbox"/> 12. On-site Disp. (H.S.&C.) | 26189.5 |
| | <input type="checkbox"/> 13. Ex Haz. Waste | 66570 |
| Prevention | <input type="checkbox"/> 14. Communications | 67121 |
| | <input type="checkbox"/> 15. Aisle Space | 67124 |
| | <input type="checkbox"/> 16. Local Authority | 67126 |
| | <input type="checkbox"/> 17. Maintenance | 67120 |
| | <input type="checkbox"/> 18. Training | 67105 |
| Contingency | <input type="checkbox"/> 19. Prepared | 67140 |
| | <input type="checkbox"/> 20. Name List | 67141 |
| | <input type="checkbox"/> 21. Copies | 67141 |
| | <input type="checkbox"/> 22. Emg. Coord. Trng. | 67144 |
| Containers, Tanks | <input type="checkbox"/> 23. Condition | 67241 |
| | <input type="checkbox"/> 24. Compatibility | 67242 |
| | <input type="checkbox"/> 25. Maintenance | 67243 |
| | <input type="checkbox"/> 26. Inspection | 67244 |
| | <input type="checkbox"/> 27. Buffer Zone | 67246 |
| | <input type="checkbox"/> 28. Tank Inspection | 67259 |
| | <input type="checkbox"/> 29. Containment | 67245 |
| | <input type="checkbox"/> 30. Safe Storage | 67261 |
| | <input type="checkbox"/> 31. Freeboard | 67257 |
| I.B TRANSPORTER (Title 22) | <input type="checkbox"/> 32. Applic./Insurance | 66428 |
| | <input type="checkbox"/> 33. Comp. Cert./CHP Insp. | 66448 |
| | <input type="checkbox"/> 34. Containers | 66465 |
| Manifest | <input type="checkbox"/> 35. Vehicles | 66465 |
| | <input type="checkbox"/> 36. EPA ID #s | 66531 |
| | <input type="checkbox"/> 37. Correct | 66541 |
| | <input type="checkbox"/> 38. HW Delivery | 66543 |
| | <input type="checkbox"/> 39. Records | 66544 |
| Cont's | <input type="checkbox"/> 40. Name/ Covers | 66545 |
| | <input type="checkbox"/> 41. Recyclables | 66800 |

Comments:

P G + E crew installing telephone pole along Alcatraz street encountered a pocket of gasoline contaminated soil at a depth of 7'.

A plastic bag containing contaminated soil was tested with an explosimeter. 40% LEL was measured.

Hole was plugged, soil was removed to P G + E site at Oakport. Crew to move to work sites further up street until clearance given by Alameda Nat.

Geo science to be informed for immediate follow up.

Contact: _____
 Title: _____
 Signature: _____

Inspector: _____
 Signature: _____

DB

QUARTERLY SUMMARY REPORT
Alameda County
September 1989

ARCO Service Station No. 374
6407 Telegraph Avenue/Alcatraz Avenue
Oakland, California 94609

Brief History

- February 8, 1988, a vapor/vent line leak was detected in the unleaded system during annual tank testing at site. The system was reportedly repaired.
- An underground Storage Tank Unauthorized Release (Leak) Report was sent from Brown and Caldwell to Alameda County Public Health Service on April 5, 1988.
- April 8, 1988, Applied GeoSystems initiated a limited environmental investigation (Applied GeoSystems Report No. 18039-1, dated June 15, 1988) at the site prior to tank replacement activities. Four soil borings were drilled near the underground product storage tanks (Plate P-1). Total petroleum hydrocarbon (TPH) concentrations between 48 and 930 ppm were detected in samples collected from depths of between approximately 5 to 8-1/2 feet in these borings. Ground water was encountered at a depth of approximately 12 feet.
- June 7 through 10, 1988, Golden West Construction Company excavated and removed four underground product storage tanks from the site (Applied GeoSystems Report No. 18039-2, dated August 1, 1988). Applied GeoSystems collected and analyzed soil samples from beneath the ends of each tank. Less than 100 ppm of TPH was detected in samples, except for samples collected beneath the north ends of tanks T1 and T4, which showed 399 and 1,097 ppm respectively. The excavation for tank T4 was extended northwards to remove contaminated soil. A sample collected from the north wall following this excavation showed 795 ppm TPH. Monitoring wells W-1 and W-2 were installed in the tank pit excavation. Wells M-3 and M-4 were installed in the new product tank pit.
- July 22, 1988, subjective analyses was performed by Applied GeoSystems on water samples collected from four wells (Plate P-1). No floating product, sheen, or emulsion were detected in wells W-3 and W-4. Product sheen was detected in wells W-1 and W-2.
- September 1988, Applied GeoSystems prepared a Work Plan for a supplemental environmental investigation to evaluate the extent of hydrocarbon contamination at the site (Work Plan No. 18039-3W, dated September 11, 1988).

- September 1988 to March 1989, encroachment permit process to install one monitoring well offsite.

Work Performed during Third Quarter 1989

- July 6, 1989, three onsite and one offsite ground-water monitoring wells were installed to assess the level of soil and ground-water contamination. Results of laboratory analyses of water and soil samples are shown on Tables 1 and 2. Locations of the wells and former tanks are shown on Plate P-1. The direction of ground-water flow is toward the southwest. Alameda County Health Agency (ACHA) requested ground-water sampling and analysis once a month for 3 months. Results of most recent sampling (August 30 and 31, 1989) indicate elevated levels of hydrocarbons offsite in well MW-3.

Future Work - Fourth Quarter 1989

- Prepare and submit a report describing the results of the environmental investigation performed at the site.
- Perform a general quality analysis of the ground water and beneficial use analysis to assess potential impact on public health and environment.
- Prepare Work Plan for additional offsite delineation of hydrocarbons in ground water.

Status of Delineation of Hydrocarbon-Contaminated Soil

- Extent of soil contamination at the site has not been delineated, although the majority appears to be limited to the area of the former tanks. The extent of soil contamination will be assessed during the continuing investigation.

Status of Delineation of Hydrocarbon-Contaminated Ground Water

- The extent of hydrocarbon contamination in ground water has not been defined. The extent of ground-water contamination will be assessed during the continuing investigation.

Status of Remediation of Hydrocarbon-Contaminated Ground Water and Soil

- Alternatives for remediation of hydrocarbon-contaminated soil and ground water will be evaluated upon completion of the ongoing environmental investigation.

TABLE 1
 ANALYTICAL RESULTS OF SOIL SAMPLES
 ARCO Service Station 374
 6407 Telegraph Avenue
 Oakland, California
 (July 1989)

Sample Number	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
S-3.5-B1	<2	<0.05	<0.05	<0.05	<0.05
S-8.5-B1	60	0.66	2.9	0.99	5.2
S-3.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-13.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-18.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-3.5-B3	<2	<0.05	<0.05	<0.05	<0.05
S-3.5-B4	<5.0	<0.05	<0.05	<0.05	<0.05
S-8.5-B4	310	0.36	4.9	5.2	22
S-13.5-B4	560	12	5.8	12	49

Results are in parts per million (ppm)
 TPHg = total petroleum hydrocarbons as gasoline
 < = below the reporting limits of the analysis

Sample designation: S-13.5-B4

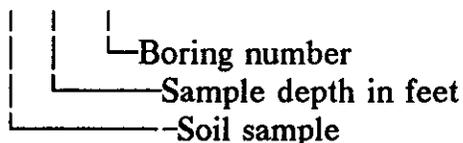
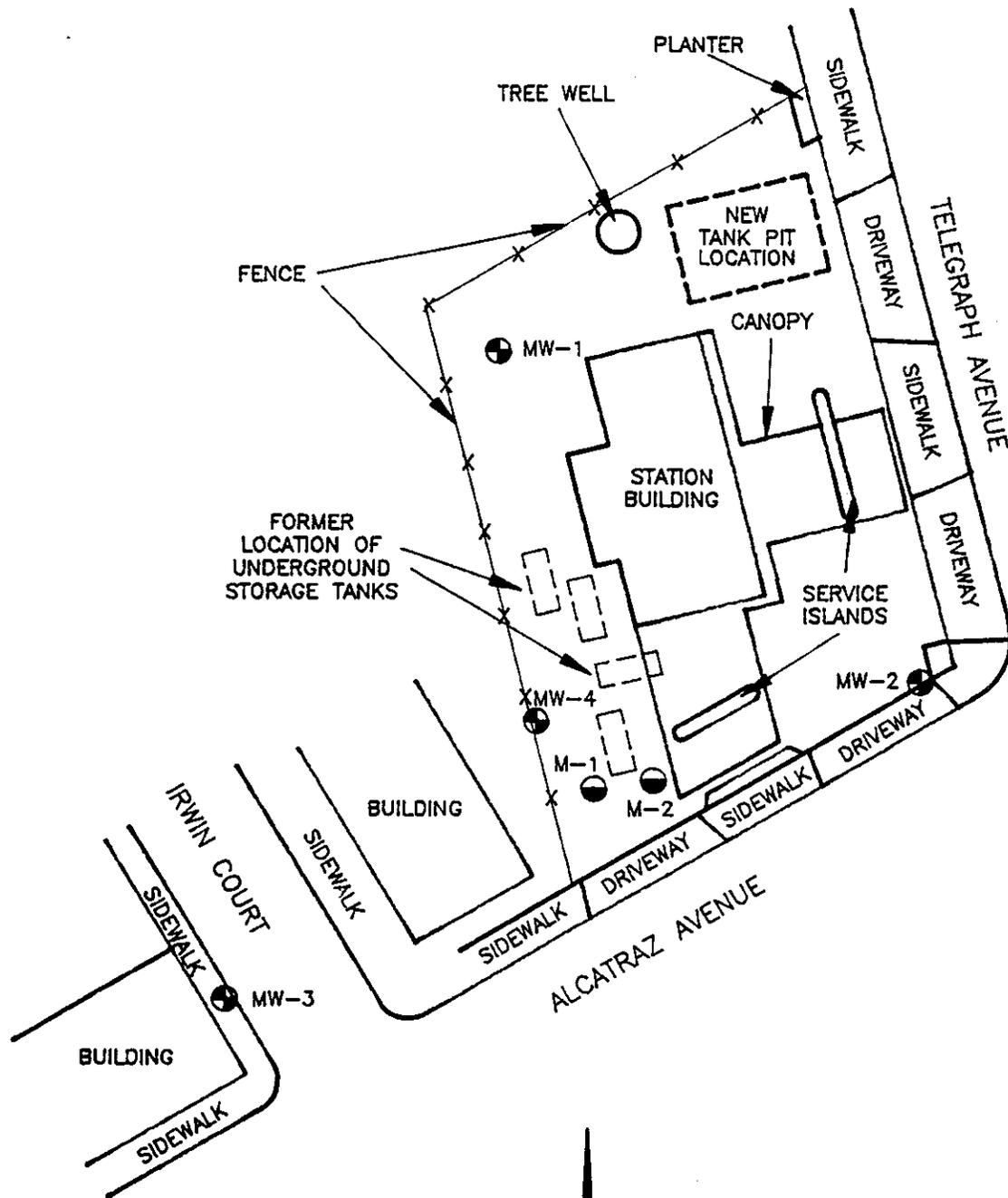


TABLE 2
 ANALYTICAL RESULTS OF WATER SAMPLES
 ARCO Service Station 374
 6407 Telegraph Avenue
 Oakland, California

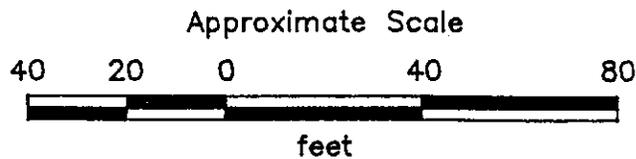
Sample Number	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1					
7/21/89	0.0332	0.00077	0.0016	0.0015	0.0050
8/30/89	<0.020	<0.00050	<0.00050	<0.00050	<0.00050
MW-2					
7/20/89	4.2	0.28	0.21	0.038	0.024
8/30/89	4.2	0.16	0.26	0.045	0.24
MW-3					
7/21/89	0.43	0.0090	0.0048	<0.00050	0.050
8/30/89	1.2	0.085	0.046	0.0084	0.055
MW-4					
7/21/89	8.7	0.72	0.36	0.12	0.64
8/30/89	7.3	0.63	0.22	0.072	0.32

Results are in parts per million (ppm)
 TPHg = total petroleum hydrocarbons as gasoline
 < = below the reporting limits of the analysis



- MW-4 ⊕ = Monitoring well installed by Applied GeoSystems (July 1989)
- M-2 ● = Tank pit monitoring well installed by Applied GeoSystems (1988)

Source: Surveyed by Ron Archer
Civil Engineer, Inc.



PROJECT NO. 18039-3

**GENERALIZED SITE PLAN
ARCO Station No. 374
6407 Telegraph Avenue
Oakland, California**

**PLATE
P - 2**

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
1111 JACKSON STREET, ROOM 6040
OAKLAND 94607

Phone: Area Code 415
464-1255



01

Date: 8/21/89

Attention: MR. KYUE CHRISTIE
ARCO PETROLEUM PRODUCTS
2000 ALAMEDA DE LAS PULGAS
SUITE 218
SAN MATEO CA 94402

CALIFORNIA REGIONAL WATER

Regarding: ARCO STATION # 374
6407 TELEGRAPH AVE
OAKLAND 94609

OCT 12 1989

QUALITY CONTROL BOARD

While reviewing information regarding the above referenced site, it was noticed that information is missing from our file. Please send a copy of the information checked below to the Regional Board at the address listed above, attention: Fuel Leaks/DMG. If there is a problem, please feel free to call us at 415-464-1269. Your prompt response will be greatly appreciated.

Lab Results	Date(s)
Analytical Method	
soil	water
gasoline	gasoline
diesel	diesel
oil and grease	oil and grease
BTX+E	BTX+E
chlorinated hydrocarbons	chlorinated hydrocarbons
other	other

Quarterly Monitoring Report for: _____

Boring Logs for: _____

Well Destruction Details for: _____

Site Maps showing:
groundwater gradient _____
definition of the groundwater contamination plume _____
definition of the benzene plume _____
location of tanks and sample points _____

Tank Testing Results _____

Other REPORT ON MONITORING WELL INSTALLATION (APPROVED
GEO SYSTEMS RPT #18039-2 - AUG. 1, 1988 ?) FOR
WELLS W-1, W-2, M-3, M-4

DATE:

TO : Local Oversight Program

FROM:

SUBJ: Transfer of Eligible Oversight Case

Site name: Arco #374

Address: 6402 Telegraph city Oak zip 94609

Closure plan attached? Y N DepRef remaining \$ _____

DepRef Project # _____ STID #(if any) 3884

Number of Tanks: 4 removed? Y N Date of removal June 7, 1988

Leak Report filed? Y N Date of Discovery 6/7/88

Samples received? Y N Contamination: Soil, water

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

Monitoring wells on site 3 Monitoring schedule? Y N

LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment Workplan approved 9/11/88

Remedial Action _____

Post Remedial Action Monitoring _____

Enforcement Action _____

July 89 - TPHg up to 560 ppm Benzene up to 12 ppm. from soil boring
Contam in water up to 8 ppm TPHg and 890 ppb benzene as of ~~3/27/91~~
4/10/90

QUARTERLY SUMMARY REPORT
Alameda County
July 1989

ARCO Service Station No. 374
6407 Telegraph Avenue/Alcatraz Avenue
Oakland, California

Brief History

- February 8, 1988, a vapor/vent line leak was detected in the unleaded system during annual tank testing at site. The system was partially repaired.
- An underground Storage Tank Unauthorized Release (Leak) Report was sent from Brown and Caldwell to Alameda County Public Health Service on April 5, 1988.
- April 8, 1988, Applied GeoSystems initiated a limited environmental investigation (Applied GeoSystems Report No. 18039-1, dated June 15, 1988) at the site prior to tank replacement activities. Four soil borings were drilled near the underground product storage tanks (Plate P-1). Total petroleum hydrocarbon (TPH) concentrations between 48 and 930 ppm were detected in samples collected from depths of between approximately 5 to 8-1/2 feet in these borings. Ground water was encountered at a depth of approximately 12 feet.
- June 7 through 10, 1988, Golden West Construction Company excavated and removed four underground product storage tanks from the site (Applied GeoSystems Report No. 18039-2, dated August 1, 1988). Applied GeoSystems collected and analyzed soil samples from beneath the ends of each tank. Less than 100 ppm of TPH was detected in samples, except for samples collected beneath the north ends of tanks T1 and T4, which showed 399 and 1,097 ppm respectively. The excavation for tank T4 was extended northwards to remove contaminated soil. A sample collected from the north wall following this excavation showed 795 ppm TPH. Monitoring wells W-1 and W-2 were installed in the tank pit excavation. Wells M-3 and M-4 were installed in the new product tank pit.
- July 22, 1988, subjective analyses was performed by Applied GeoSystems on water samples collected from four wells (Plate P-1). No floating product, sheen, or emulsion were detected in wells W-3 and W-4. Product sheen was detected in wells W-1 and W-2.
- September 1988, Applied GeoSystems prepared a Work Plan for a supplemental environmental investigation to evaluate the extent of hydrocarbon contamination at the site (Work Plan

- No. 18039-3W, dated September 11, 1988).
- September 1988 to March 1989, applying for encroachment permit to install one monitoring well offsite.

Work Performed during Second Quarter 1989

- March through July 1989, Alameda County Health Agency (ACHA) review of Work Plan, modifications to Work Plan, and approval of Work Plan by ACHA. Initiated work described in Work Plan.

Proposed Work - Third Quarter 1989

- Implement Work Plan, including drilling and installing three onsite monitoring wells and one offsite monitoring well.

Status of Delineation of Hydrocarbon-Contaminated Soil

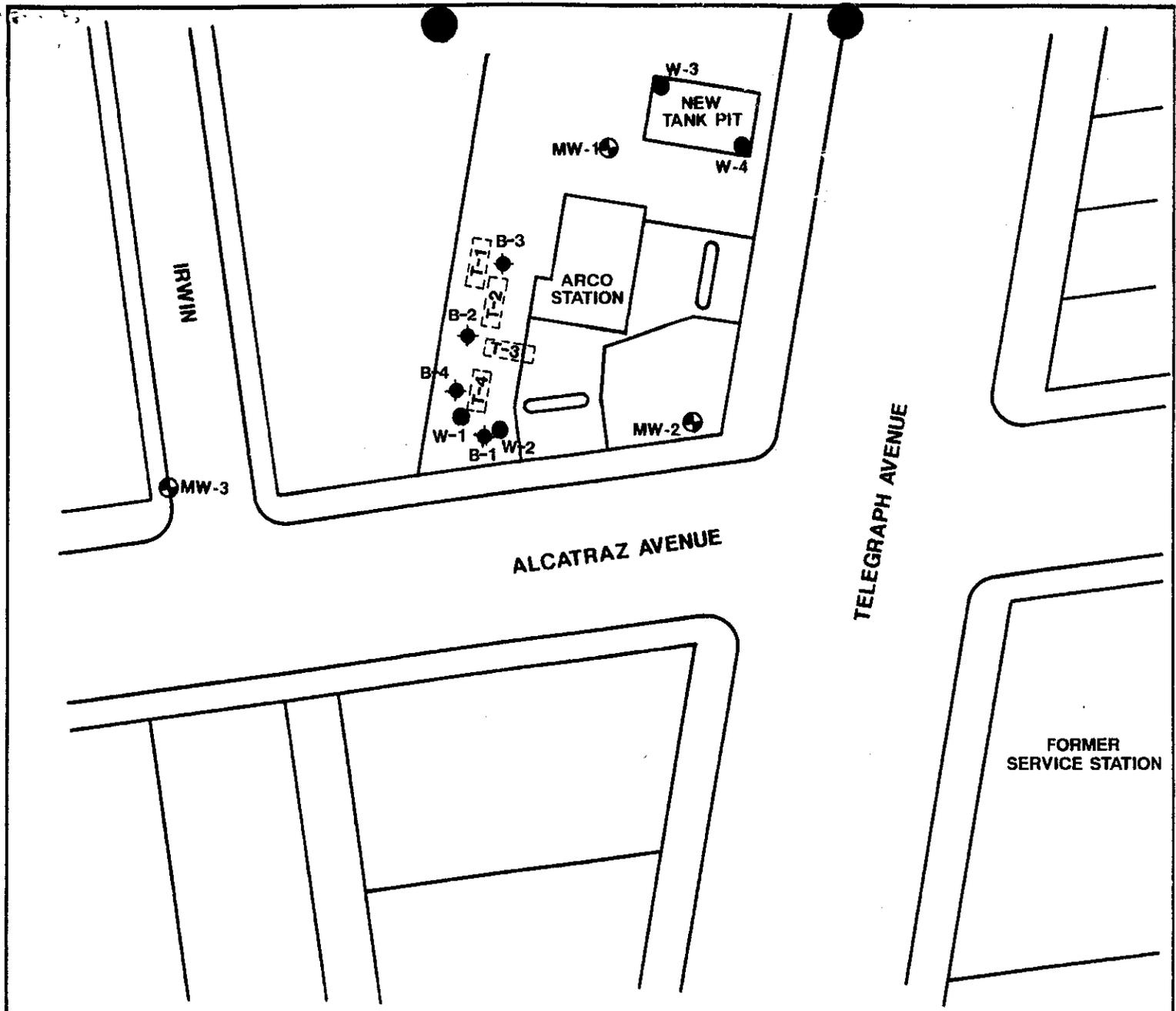
- Extent of soil contamination at the site has not been delineated. The extent of soil contamination will be assessed during the continuing investigation.

Status of Delineation of Hydrocarbon-Contaminated Ground Water

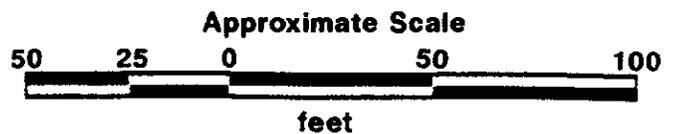
- The extent of hydrocarbon contamination in ground water has not been defined. The extent of ground-water contamination will be assessed during the continuing investigation.

Status of Remediation of Hydrocarbon-Contaminated Ground Water and Soil

- Alternatives for remediation of hydrocarbon-contaminated soil and ground water will be evaluated upon completion of the ongoing environmental investigation.



- B-4
- ◆ = Soil boring location
- ☐-☐ = Former underground tank
- ⊕ = Proposed monitoring well location
- = Tank-pit well location



Source: Modified from Assessor's maps and ARCO site plan



PROJECT NO. 19011-1

GENERALIZED SITE PLAN
 ARCO Station No. 0374
 Telegraph and Alcatraz Avenues
 Oakland, California

PLATE
P - 1

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



file

14 June 1989

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

Kyle Christie
ARCO Products Company
2000 Alameda de las Pulgas
P.O. Box 5811
San Mateo, CA 94402

Subject: Site Investigation at ARCO Station #374, 6407 Telegraph Ave,
Oakland. AGS Workplan 18039-3W.

Dear Mr. Christie:

Thank you for the proposal prepared by Applied Geosystems concerning further investigation of suspected soil contamination at the location listed above. Our agency has reviewed this proposal and found it to be acceptable. Approval is therefore granted for it's implementation.

If you have any questions or require further clarification concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid
Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB

cc: K. William Howell, Applied Geosystems
43255 Mission Boulevard
Fremont, CA 94539



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

• FREMONT • COSTA MESA • SACRAMENTO • HOUSTON

May 15, 1989
0515bar
AGS 18039-3W

Mary Jo Meyers-Barnes
Hazardous Materials Specialist
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

M

Subject: Fee for processing AGS Work Plan 18039-3W regarding additional subsurface environmental investigation at ARCO Station No. 374, 6407 Telegraph Avenue, Oakland, California 94609.

Ms. Meyers-Barnes:

At the request of ARCO Products Company, we are submitting the enclosed check for reviewing Applied GeoSystems Work Plan No. 018039-3W. Pending your approval, we anticipate beginning the work described in the plan during June 1989. Please contact us if you have any questions or comments regarding our proposed investigation at the above-referenced ARCO Service Station.

Sincerely,
Applied GeoSystems

K. William Howell

K. William Howell
Project Geologist

Enclosure: Check No. 3602

Project # U542335
Fee Paid \$500.
Date 5/18/89

QUARTERLY SUMMARY REPORT
Alameda County
April 1989

ARCO Service Station No. 374
6407 Telegraph Avenue/Alcatraz Avenue
Oakland, California 94609

BRIEF HISTORY

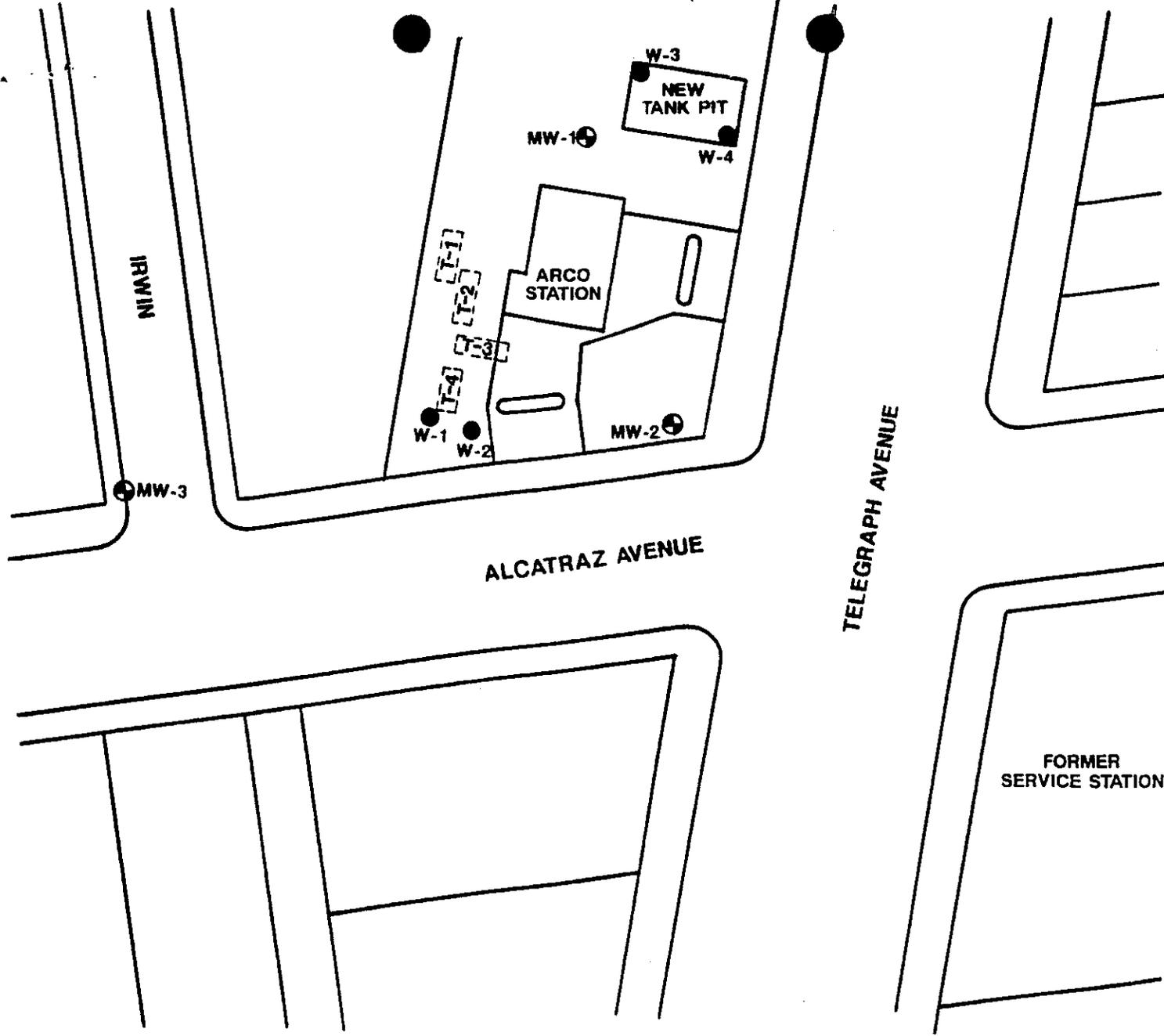
- February 8, 1988, a vapor/vent line leak was detected in the unleaded system during annual tank testing at site. The system was partially repaired.
- An underground Storage Tank Unauthorized Release (Leak) Report was sent from Brown and Caldwell to Alameda County Public Health Service on April 5, 1988.
- April 8, 1988, Applied GeoSystems initiated a limited environmental investigation (Applied GeoSystems Report No. 18039-1, dated June 15, 1988) at the site. Four soil borings were drilled near the underground product storage tanks (Plate P-1). Total Petroleum Hydrocarbon (TPH) concentrations between 48 and 930 ppm were detected in samples collected from depths of between approximately 5 to 8 1/2 feet in these borings. Ground water was encountered at a depth of approximately 12 feet.
- June 7 through 10, 1988, Golden West Construction Company excavated and removed 4 underground product storage tanks from the site (Applied GeoSystems Report No. 18039-2, dated August 1, 1988). Applied GeoSystems collected and analyzed soil samples from beneath the ends of each tank. Less than 100 ppm of TPH was detected in samples, except for samples collected beneath the north ends of tanks T1 and T4, which showed 399 and 1,097 ppm respectively. The excavation for tank T4 was extended northwards to remove contaminated soil. A sample collected from the north wall following this excavation showed 795 ppm TPH. Monitoring wells W-1 and W-2 were installed in the tank pit excavation. Wells M-3 and M-4 were installed in the new product tank pit.
- July 22, 1988, subjective analyses was performed on water samples collected from 4 wells (Plate P-1). No floating product, sheen, or emulsion were detected in wells W-3 and W-4. Product sheen was detected in wells W-1 and W-2.
- September 1988, Applied GeoSystems prepared a Work Plan for a supplemental environmental investigation to evaluate the extent of hydrocarbon contamination at the site (Work Plan No. 18039-3W, dated September 11, 1988). Proposed work

includes drilling three soil borings and installing ground-water monitoring wells in each boring (Plate P-1).

- September 1988 to March 1989, applying for encroachment permit to install one monitoring well offsite.

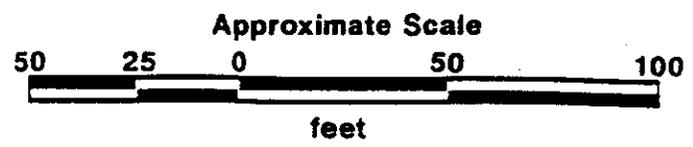
PROPOSED WORK

- Continue supplemental environmental investigation as stated in September 11, 1988 Work Plan.



- = Former underground tank
- = Proposed monitoring well location
- = Well location

Source: Modified from Assessor's maps and ARCO site plan



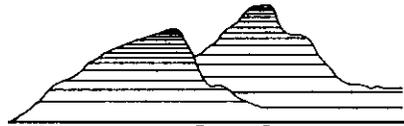
PROJECT NO. 19011-1

GENERALIZED SITE PLAN
 ARCO Station No. 0374
 Telegraph and Alcatraz Avenues
 Oakland, California

PLATE
P - 1

APR 14 1989

TJC



QUALITY CONTROL BOARD

Applied GeoSystems 3315 Almaden Expressway, Suite 34, San Jose, CA 95118 (408) 264-7723

- FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

April 15, 1989
0415srit

Mr. Steven R. Ritchie
 California Regional Water Quality Control Board
 San Francisco Bay Region
 1111 Jackson Street, Room 6040
 Oakland, California 94607

Subject: Quarterly Summary Reports for various ARCO Service Stations located in Alameda County, California.

Mr. Ritchie:

Enclosed are the Quarterly Summary Reports for various ARCO Service Stations in Alameda County, California, as listed below. We are sending you these reports on behalf of Mr. Kyle Christie of ARCO Products Company.

1260 Park Street	Alameda	Service Station No. 2112
1001 San Pablo Avenue	Albany	Service Station No. 2035
3000 Shattuck Avenue	Berkeley	Service Station No. 414
22141 Center Street	Castro Valley	Service Station No. 2152
2770 Castro Valley Road	Castro Valley	Service Station No. 4977
40055 Blacow Road	Fremont	Service Station No. 2147
35900 Fremont Boulevard	Fremont	Service Station No. 2158
40077 Mission Boulevard	Fremont	Service Station No. 6201
43500 Grimmer Boulevard	Fremont	Service Station No. 6206
365 Jackson Street	Hayward	Service Station No. 1319
899 Rincon Avenue	Livermore	Service Station No. 771
10600 MacArthur Blvd.	Oakland	Service Station No. 276
6407 Telegraph Avenue	Oakland	Service Station No. 374
52nd Street	Oakland	Service Station No. 6148
3310 Park Boulevard	Oakland	Service Station No. 2107
889 West Grand Avenue	Oakland	Service Station No. 2169
731 W. MacArthur Blvd.	Oakland	Service Station No. 4931
15135 Hesperian Blvd.	San Leandro	Service Station No. 2162
17601 Hesperian Blvd.	San Lorenzo	Service Station No. 608

Quarterly Summary Reports
Alameda County, California

April 15, 1989
AGS 19011-1

ARCO Products Company has no records for the following service stations:

Mountain/Merced	Oakland	Service Station No. 623
556 Hegenberger Road	Oakland	Service Station No. 4494
1401 Grand Avenue	San Leandro	Service Station No. 530

We understand that ARCO does not own the service station located at 4191 First Street in Pleasanton, California. Please call me at (408) 264-7723 if you have questions regarding the summary reports.

Sincerely,
Applied GeoSystems


Greg Barclay
Project Branch
Manager

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) 271-4320

10 April, 1989

Kyle Christie
Environmental Engineer
Arco Products Company
2000 Alameda de las Pulgas
P.O. Box 5811
San Mateo, Ca. 94402

Subject: Deposit/Refund requirements concerning the site
remediation project at Arco Station #374, 6407 Telegraph
Avenue, Oakland.

Dear Mr. Christie:

A review of our records indicates that the security deposit of \$112.00 which your company had paid to Alameda County at the initiation of the underground storage tank modification project at the above site has been exhausted. This deposit is to cover the expenses incurred by County personnel in the performance of their oversight responsibilities. A record is kept of the hours which an Alameda County employee commits to a project and the deposit is reduced at a rate of \$56.00 per hour. This policy is authorized by Section 3-141.6 of the Ordinance Code of the County of Alameda.

A check for a total of \$500.00, made payable to the County of Alameda, must be submitted to this office before any further action can be taken regarding your proposals for this site. Following the completion of the project, the remaining balance of the deposit will be refunded to you.

If you have any questions concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB



March 15, 1989

~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~

(415) 271-4320

ARCO Petroleum Products
2000 Alameda de las Pulgas, Suite 218
San Mateo, CA 94402

ATTN: Kyle Christie

SECOND NOTICE OF VIOLATION

RE: UNDERGROUND TANK CLOSURE PROPOSAL AT 6407 Telegraph
AVE., OAKLAND, CA 94609

Dear Mr. Christie:

On January 31, 1989, our office sent you a Notice of Violation requesting that information be submitted to our office concerning the above site, on or before February 28, 1989. As of the date of this letter, we have not received the information requested.

Our department has reviewed the proposal concerning site assessment and monitoring well installation at ARCO Service Station #374, 6407 Telegraph Ave., Oakland, CA., submitted September 20, 1988, by Applied GeoSystems (AGS Job No. 018039-3W). Our office will be the lead agency overseeing the remediation of this site. We will be working with the Regional Water Quality Control Board (RWQCB) to ensure that their remediation requirements are met. The proposed investigative work is not adequate to define the extent of soil and possible groundwater contamination. Therefore, we request the proposal to include the following additional information before any work is done at the site. All work must be performed according to the Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, 2 June 1988.

1. Determination of the vertical and lateral extent of soil contamination. To date, acceptable definition has not been accomplished.
2. Hydraulic gradient must be established through historical data from wells in close proximity to the site and/or installation of additional groundwater wells. Groundwater gradient cannot be established through local topography.
3. The well that will be used as a monitoring well to sample the ground water must be determined to be the monitoring well located in down gradient as determined by the hydraulic gradient.
4. Definition of the horizontal and vertical extent of the ground water pollution plume if evidence of floating product is found. The presence of any fuel product in the monitoring well must be checked using an optical probe or other method having similar accuracy. The use of a bailer is not acceptable. The extent of the free product plume and the extent of dissolved product plumes must be addressed.

- a) A minimum of one monitoring well must be installed within 10 feet of the tank excavation in the verified downgradient direction. All monitoring wells must be installed according to RWQCB "Guidelines for Addressing Fuel Leaks" (1988). Analytical soil samples must be collected every 5 feet to groundwater or maximum depth of 40 feet;
 - b) Monitoring and extraction wells should be designed and constructed to be consistent with the LUFT manual and to permit entrance of free product into the wells;
 - c) All monitoring wells shall be sampled monthly for free product and dissolved constituents 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 sampling event is begun, free product thicknesses and water levels shall be performed using an optical probe or other device of equal accuracy;
5. Interpretation of hydrogeologic data. Water level contour maps, ground water gradient determinations, and free and dissolved product definition maps should 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 should also be prepared using appropriate boring logs. The geologic characteristics of the aquifer must be described. The cross sections, ground water gradients (horizontal and vertical), and tidal effects should be interpreted to explain pollution migration patterns.
 6. Determination of the potential short- and long- term impacts of the pollution plume on the beneficial uses of ground and surface water in the area. Beneficial uses include municipal water supply, ground water recharge, fresh water habitat, wildlife habitat, contact and non-contact recreation, and fish migration.
 7. Development of a remediation plan. The overall effectiveness of the remediation system should be verified by an appropriate monitoring program. This plan is to include a time schedule for plan implementation and, at a minimum, must address the following:

- a) Expedient removal of all free product by an appropriate remediation system. Specific information on the system must be submitted. Manual bailing of fuel product is not acceptable as a recovery system, nor is a system which increases soil contamination. Actual amounts of free product must be monitored and tabulated;
 - b) Remediation of contaminated soil. Soil contaminated with 1000 ppm or greater total petroleum hydrocarbons must be remediated. Soil having hydrocarbon levels between 100 and 1000 ppm must be either remediated or, if sufficient evidence is provided which indicates no adverse effects on a groundwater will occur, left as is with implementation of a groundwater monitoring program. Cleanup of soils to less than 100 ppm is strongly recommended in order to minimize the impact of residual soil contamination on ground water quality;
 - c) Remediation of any dissolved constituents. Contaminated ground water must be remediated such that beneficial uses of the ground and surface water are restored and/or protected as required by RWQCB's "Policy with Respect to Maintaining High Quality of Waters in California."
8. Subjective evaluation of hydrocarbon content of drill cuttings, based on the presence of soil discoloration and on measurements from the OVM, is not an acceptable method of contamination quantitation. Certified laboratory analytical results are required prior to proper disposal determination.
 9. Aeration of hydrocarbon contaminated drill cuttings onsite requires a TSD permit or a variance from DOHS, or permission from the Bay Area Air Quality Management District.

Please resubmit your proposal for the above site within 15 days, on or before April 3, 1989, along with a \$500.00 fee to cover additional Health Care Agency costs. Implementation of remedial plans for free product, polluted soils and dissolved constituents may be appropriate prior to full definition of the extent of pollution. After approval by our department of the revised proposal, site assessment proceedings may begin.

ARCO Petroleum
March 15, 1989
Page 4 of 4

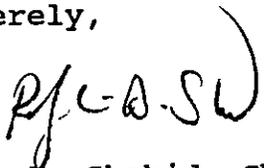
Reports documenting implementation of the above work plan must contain:

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 constituent remediation
12. Status of dissolved constituent plume definition
13. Copies of TSDF to Generator manifests for any hazardous wastes hauled off site (ie. drill cuttings, tanks, soil)
14. Soil boring/well logs of existing/new wells/borings, signed by appropriate registered or certified professional
15. A statement of qualifications for each lead professional

Please be aware that final approval for the work performed on your site, is the responsibility of the Regional Water Quality Control Board. All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and the RWQCB.

Should you have any questions concerning this letter, please contact Mary Jo Meyers-Barnes, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,



Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:mjm-b

cc: John T. Lambert, Project Geologist, Applied Geosystems
Don Dalke, Regional Water Quality Control Board
Dwight Hoenig, DOHS
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Agency
Mary Jo Meyers-Barnes, HazMat Specialist
Files

P 833 981 253

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to ARCO - Kyle Christie	
Street and No. 2000 Alameda delos Pulgones St	
P.O., State and ZIP Code San Mateo 94402	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date RG: 6407 TELEGRAPH AVE OAKLAND 94609	

PS Form 3800, June 1985

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Director



Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621

File

Telephone Number: (415) 271-4320

January 31, 1989

ARCO Petroleum Products
2000 Alameda de las Pulgas, Suite 218
San Mateo, CA 94402

ATTN: Kyle Christie

RE: UNDERGROUND TANK CLOSURE PROPOSAL AT 6407 Telegraph
AVE., OAKLAND, CA 94609

Dear Mr. Christie:

Our department has reviewed the proposal concerning site assessment and monitoring well installation at ARCO Service Station #374, 6407 Telegraph Ave., Oakland, CA., submitted September 20, 1988, by Applied GeoSystems (AGS Job No. 018039-3W). Our office will be the lead agency overseeing the remediation of this site. We will be working with the Regional Water Quality Control Board (RWQCB) to ensure that their remediation requirements are met. The proposed investigative work is not adequate to define the extent of soil and possible groundwater contamination. Therefore, we request the proposal to include the following additional information before any work is done at the site. All work must be performed according to the Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, 2 June 1988.

1. Determination of the vertical and lateral extent of soil contamination. To date, acceptable definition has not been accomplished.
2. Hydraulic gradient must be established through historical data from wells in close proximity to the site and/or installation of additional groundwater wells. Groundwater gradient cannot be established through local topography.
3. The well that will be used as a monitoring well to sample the ground water must be determined to be the monitoring well located in down gradient as determined by the hydraulic gradient.
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- a) A minimum of one monitoring well must be installed within 10 feet of the tank excavation in the verified downgradient direction. All monitoring wells must be installed according to RWQCB "Guidelines for Addressing Fuel Leaks" (1988). Analytical soil samples must be collected every 5 feet to groundwater or maximum depth of 40 feet;
 - b) Monitoring and extraction wells should be designed and constructed to be consistent with the LUFT manual and to permit entrance of free product into the wells;
 - c) All monitoring wells shall be sampled monthly for free product and dissolved constituents 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 sampling event is begun, free product thicknesses and water levels shall be performed using an optical probe or other device of equal accuracy;
5. Interpretation of hydrogeologic data. Water level contour maps, ground water gradient determinations, and free and dissolved product definition maps should 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 should also be prepared using appropriate boring logs. The geologic characteristics of the aquifer must be described. The cross sections, ground water gradients (horizontal and vertical), and tidal effects should be interpreted to explain pollution migration patterns.
 6. Determination of the potential short- and long- term impacts of the pollution plume on the beneficial uses of ground and surface water in the area. Beneficial uses include municipal water supply, ground water recharge, fresh water habitat, wildlife habitat, contact and non-contact recreation, and fish migration.
 7. Development of a remediation plan. The overall effectiveness of the remediation system should be verified by an appropriate monitoring program. This plan is to include a time schedule for plan implementation and, at a minimum, must address the following:

- a) Expedient removal of all free product by an appropriate remediation system. Specific information on the system must be submitted. Manual bailing of fuel product is not acceptable as a recovery system, nor is a system which increases soil contamination. Actual amounts of free product must be monitored and tabulated;
 - b) Remediation of contaminated soil. Soil contaminated with 1000 ppm or greater total petroleum hydrocarbons must be remediated. Soil having hydrocarbon levels between 100 and 1000 ppm must be either remediated or, if sufficient evidence is provided which indicates no adverse effects on a groundwater will occur, left as is with implementation of a groundwater monitoring program. Cleanup of soils to less than 100 ppm is strongly recommended in order to minimize the impact of residual soil contamination on ground water quality;
 - c) Remediation of any dissolved constituents. Contaminated ground water must be remediated such that beneficial uses of the ground and surface water are restored and/or protected as required by RWQCB's "Policy with Respect to Maintaining High Quality of Waters in California."
8. Subjective evaluation of hydrocarbon content of drill cuttings, based on the presence of soil discoloration and on measurements from the OVM, is not an acceptable method of contamination quantitation. Certified laboratory analytical results are required prior to proper disposal determination.
 9. Aeration of hydrocarbon contaminated drill cuttings onsite requires a TSD permit or a variance from DOHS, or permission from the Bay Area Air Quality Management District.

Please resubmit your proposal for the above site within 25 days, on or before February 28, 1989, along with a \$500.00 fee to cover additional Health Care Agency costs. Implementation of remedial plans for free product, polluted soils and dissolved constituents may be appropriate prior to full definition of the extent of pollution. After approval by our department of the revised proposal, site assessment proceedings may begin.

ARCO Petroleum
January 31, 1989
Page 4 of 4

Reports documenting implementation of the above work plan 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
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12. Status of dissolved constituent plume definition
13. Copies of TSDF to Generator manifests for any hazardous wastes hauled off site (ie. drill cuttings)
14. Soil boring/well logs of existing/new wells/borings, signed by appropriate registered or certified professional
15. A statement of qualifications for each lead professional

Please be aware that final approval for the work performed on your site, is the responsibility of the Regional Water Quality Control Board. All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and the RWQCB.

Should you have any questions concerning this letter, please contact Mary Jo Meyers-Barnes, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,



Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:mjm-b

cc: John T. Lambert, Project Geologist, Applied Geosystems
Don Dalke, Regional Water Quality Control Board
Dwight Hoenig, DOHS
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Agency
Mary Jo Meyers-Barnes, HazMat Specialist
Files

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF LOANS AND GRANTS
2014 T STREET
P.O. BOX 944212
SACRAMENTO, CA 94244-2120
(916) 739-4352



RECEIVED
JAN 17 1989

HAZARDOUS MATERIALS
WASTE PROGRAM

JAN 12 1989

County Board of Supervisors

HAZARDOUS WASTE DISCHARGE

Enclosed is information pertaining to a hazardous waste discharge in your County. The disclosure of this information is required under Section 25180.7 of the Health and Safety Code (Proposition 65). A copy is also being sent to your County Health Officer. Your local underground storage tank permitting agency should already be aware of this discharge.

We routinely disclose information on all underground storage tank leaks, even though not all may pose a substantial threat of injury to public health or safety.

We have no additional information at this time, and suggest that you or your staff contact the person listed in the "Reported By" section if you need more information.

Please call Allan Patton of my staff at (916) 739-2475 if you have any questions.

Sincerely,


Mike McDonald, Manager
Underground Tank Program
Division of Loans and Grants

Enclosure

cc: County Health Officer

UNDERGROUND STORAGE TANK LEAK REPORT - ALAMEDA COUNTY
01/12/89

Emergency: N Case Number:
Site Name: ARCO SERVICE STATION #374
Operator: SUD, SANTOSH KUMAR Phone: (415)568-7508
Address: 6407 TELEGRAPH AVENUE
OAKLAND 94609
Cross Street: ALCATRAZ
Case Type: Undetermined (U)
Status: Preliminary Assessment in Progress (3)
Abatement Methods: Other Method Used
Regional Board: 02 Local Agency: COUNTY OF ALAMEDA
Lead Agency:
Substance Leaked: PREMIUM GASOLINE Petroleum: Y Quantity Leaked:

Responsible Party Information: MR. CHRISTIE, KYLE
ARCO PETROLEUM PRODUCTS
2000 ALAMEDA DE LAS PULGAS, SUITE 218, SAN MATEO, CA 94402
Phone: (415)571-2434

Reported By Information: Date Reported: 12/12/88
BERRY, TINA Represents: Owner
1601 CIVIC CENTER DRIVE, SUITE 202, SANTA CLARA, CA 95050

Date Discovered: 12/06/88 How Discovered: Other Means
Date Stopped: 12/01/88 How Stopped: Remove Contents
Source of Leak: Tank
Cause of Leak: Unknown

COMMENTS:

XERXES
CORPORATION

CENTURY FIBERGLASS™
HEIL PROCESS EQUIPMENT™
ORBITEX™ FIBERGLASS

January 12, 1989

RECEIVED
JAN 17 1989

HAZARDOUS MATERIALS/
WASTE PROGRAM

Mr. Ron Miles
Arco Petroleum Products Company
P.O. Box 5811
San Mateo, California 94402

Subject: Xerxes 12,000 Gallon Double Wall Tank (UL #16127)
Located at Alcatraz Street, Oakland, California

Dear Mr. Miles:

Our summarized field report on this vessel indicates as follows:

Steps taken after installation of manway to facilitate inspection were:

1. Pressurized annulus to facilitate search for possible leak.
2. Repeated soaping of tank interior and search of all surface and fitting areas.
3. Search revealed a small bubbling on the sleeve connecting primary/secondary tanks in one of the 4" through-the-wall tank fittings.

Xerxes' Field Service Manager indicated a possible delamination in the tank opening which could have been caused by impact.

Repairs were made internally and on the external bonding of the steel fitting plate by removing suspect bonding material and replacing it.

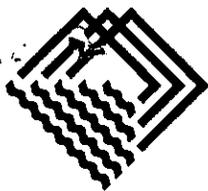
Tank annulus and primary tank were individually and satisfactorily air pressure tested.

Sincerely,



Roland Fribourghouse
General Manager

RF/cw



PACIFIC
ENVIRONMENTAL
GROUP, INC.

December 16, 1988
Project No. 330-03.01

RECEIVED
DEC 20 1988

HAZARDOUS MATERIALS/
WASTE PROGRAM

Alameda County Public Health Dept.
Hazardous Materials Section
80 Swan Way, Suite 200
Oakland, CA 94621

Attn: Mr. Ed Howell

Subject: ARCO Station #374
6407 Telegraph Ave.
Oakland, CA 94609

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.

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

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.

Tina Berry

Tina Berry
Staff Geologist

enclosure

cc: Mr. Kyle Christie - ARCO Petroleum Products Company
Mr. Rafat Shahid - Alameda Co. Public Health Dept.
Mr. Chris Winsor - ARCO Petroleum Products Company

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 HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25100.7 OF THE HEALTH AND SAFETY CODE.	
REPORT DATE 1 M 2 M 1 D 4 D 8 Y 8 Y		CASE #		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Tina Berry		PHONE (408) 984-6536	SIGNATURE As Agent for ARCO <i>Tina Berry</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 Mr. Kyle Christie	PHONE (415) 571-2434	
	ADDRESS 2000 Alameda de las Pulgas, Suite 218, San Mateo, CA 94402				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Service Station #374		OPERATOR Santosh Kumar Sud	PHONE (415) 658-7508	
	ADDRESS 6407 Telegraph Ave. Oakland Alameda 94609				
	CROSS STREET Alcatraz	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 checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER	
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Public Health		CONTACT PERSON Ed Howell	PHONE (415) 271-4320	
	REGIONAL BOARD San Francisco Bay Region		CONTACT PERSON Dyan White	PHONE (415) 464-0838	
SUBSTANCES INVOLVED	(1) Gasoline (Super-Unleaded)			NAME QUANTITY LOST (GALLONS) < .10 <input type="checkbox"/> UNKNOWN	
	(2) <input type="checkbox"/> UNKNOWN				
DISCOVERY/ABATEMENT	DATE DISCOVERED 1 M 2 M 0 D 6 D 8 Y 8 Y		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 *		
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" 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 type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1 M 2 M - D - D 8 Y 8 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 12,000 GAL. AGE 8 MO. <input checked="" type="checkbox"/> YEARS <input type="checkbox"/> UNKNOWN	MATERIAL <input checked="" type="checkbox"/> FIBERGLASS <input type="checkbox"/> STEEL <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				
CASE TYPE	CHECK ONE ONLY N/A - see comments <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 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) To Be Determined				
COMMENTS	*Discovered by signal from Ray-Chem leak detector probe. -Investigation into leak source is continuing. Gasoline did not enter soil or groundwater; it was contained within the secondary containment. Gasoline within secondary containment removed 12/14/88.				

JAN 1989

NC

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

QUALITY CONTROL BOARD

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 1_D 4_D 8_Y 8_Y		CASE #		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Tina Berry		PHONE (408) 984-6536	SIGNATURE As Agent for ARCO Tina Berry	
	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 Mr. Kyle Christie	PHONE (415) 571-2434	
	ADDRESS 2000 Alameda de las Pulgas, Suite 218, San Mateo, CA 94402				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Service Station #374		OPERATOR Santosh Kumar Sud	PHONE (415) 658-7508	
	ADDRESS 6407 Telegraph Ave. Oakland Alameda 94609				
	CROSS STREET Alcatraz	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 checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER		
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Public Health		CONTACT PERSON Ed Howell	PHONE (415) 271-4320	
	REGIONAL BOARD San Francisco Bay Region		CONTACT PERSON Dyan White	PHONE (415) 464-0838	
SUBSTANCES INVOLVED	(1) Gasoline \$Super-unleaded)			QUANTITY LOST (GALLONS) < 10 <input type="checkbox"/> UNKNOWN	
	(2) _____ <input type="checkbox"/> UNKNOWN				
DISCOVERY/ABATEMENT	DATE DISCOVERED 1_M 2_M 0_D 6_D 8_Y 8_Y	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 *			
	DATE DISCHARGE BEGAN ____M ____D ____Y ____Y <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" 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 type="checkbox"/> OTHER			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1_M 2_M -D -D 8_Y 8_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 12,000 GAL. AGE 8 MO. <input checked="" type="checkbox"/> XXXX <input type="checkbox"/> UNKNOWN	MATERIAL <input checked="" type="checkbox"/> FIBERGLASS <input type="checkbox"/> STEEL <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 N/A - see comments <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 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) To Be Determined				
COMMENTS	*Discovered by signal from Ray-Chem leak detector probe. -Investigation into leak source is continuing. Gasoline did not enter soil or groundwater; it was contained within the secondary containment. Gasoline within secondary containment removed 12/14/88.				



CALIFORNIA REGIONAL WATER

SEP 21 1988

Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94538 (415) 651-1906

QUALITY CONTROL BOARD

- FREMONT
- COSTA MESA
- SACRAMENTO
- HOUSTON

LETTER TRANSMITTAL

JOB NUMBER: 018039-3

SEND TO: Mr Greg Zentner

DATE: 13th September 1988

OF: RWQCB

ENCLOSURES

NO. OF COPIES

Work Plan, Supplemental Subsurface

1

Environmental Investigation at

ARCO Station No 0374 Telegraph and Alcatraz Avenues, Oakland, CA.

COMMENTS:

ARCO Petroleum
2000 Alameda
Mailing Address
San Mateo
Telephone

Secondary Substances

Waste Oil

Case Type

U (G) D

Status

I

Well Status

IW

Soil Affected

(Y) U

Max. Soil Conc. (ppm)

~~1097~~ 1097

Max. Residual Soil (ppm)

Mr. T. M. Gerow
Alameda County
Department
80 Swan Way
Oakland, California

Soil Status

X

Groundwater Affected

(Y) U

Max. Groundwater Impact

~~26~~ 99999.9

Re: ARCO Station

Groundwater Status

I

Dear Mr. Gerow:

Depth to Groundwater

11

Enclosed is a report
subject location.
assess the quality
replacement. If
contact me at (415)

Drinking Water Affected

Y

(U)

Drinking Water Status

N

Remedial Action

ED, ET, RA

Proof Action Needed

RA

Date of Last Correlation

8/12/88

Date Case Received

4/25/88

Case Evaluated By

RM6

Sincerely,

Kyle Christie

Consultant APG Lab APG

Kyle A. Christie
Environmental Engineer

for the
oil tank
case

RECEIVED
JUL 6 1988

HAZARDOUS MATERIALS/
WASTE PROGRAM

6-8-88

ARCO #0374
TELEGRAPH & ALCATRAZ
OAKLAND

AGS#018039-2

Sample No.	TPH	BENZENE	ETHYL BENZENE	TOLUENE	TOTAL XYLENE
S-11-T1A	399	14.7	20.0	20.5	91.9
S-11-T1B	8	2.57	0.39	0.74	2.75
S-12-T2A	4				
S-12-T2B	75				

All results in ppm

Self

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

27TH ST., RM. 322
OAKLAND, CA 94612
PHONE NO. 15/874-7237

RECEIVED

APR 14 1988

GOLDEN WEST BUILDERS

RECEIVED
MAY 06 1988

HAZARDOUS MATERIALS/
WASTE PROGRAM

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH

470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now ready for issuance of any required building permits for construction.
One copy of these accepted plans must be on hand available to all contractors and craftsmen involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this Department and to the fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

- Removal of Tank and Piping
- Sampling
- Excavation

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

- Business Name ARCO FACILITY #374
Business Owner Santosh Kumar Sud
- Site Address 6407 Telegraph Avenue at Alcatraz Avenue
City Oakland Zip 94609 Phone (415) 658-7508
- Mailing Address Same
City _____ Zip _____ Phone _____
- Land Owner ARCO Petroleum Products, Co.
Address P.O.Box 5811 City, State San Mateo, CA Zip 94403
- EPA I.D. No. CAC 0000 79269
- Contractor Golden West Builders
Address 2363 Blvd circle # 103
City Walnut Creek Phone 930-6666
License Type A ID# 432103
- Other (Specify) Robert H. Lee and Associates (architects/engineers)
Address 900 Larkspur Landing Circle, suite 125
City Larkspur, CA 94939 Phone (415) 461-8890

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity 6000 8000 6000 4000 4000	Historic Contents (past 5 years) gasoline	soil	15'
		soil sampled at soil-water interface if ground water contacted	1-2 ft below fuel & opposite ends of tank
		water sample if visible	

14. Have tanks or pipes leaked in the past? Yes [xx] No []

If yes, describe. Product leak was discovered in the unleaded fuel piping.

15. NFPA methods used for rendering tank inert? Yes [xx] No []

If yes, describe. 10 lbs. of dry ice per 1,000 gallons of tank volume.

15 lbs

16. Laboratories

Name Bill Short

Address Applied Geosystems 93255 Mission Blvd

City Fremont State CA zip 94539

State Certification No. 153

* Req: An explosion proof combustible gas meter shall be used to verify tank inertness

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
Gasoline	modified EPA method 8015 BTX, TPH	8015, DHS method

18. Site Safety Plan submitted? Yes No

19. Workman's Compensation: Yes No

Copy of Certificate enclosed? Yes No

Name of Insurer State Fund

20. Plot Plan submitted? Yes No

21. Deposit enclosed? Yes No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) Rick Henderson

Signature *Rick Henderson*

Date 5-3-88

Signature of Site Owner or Operator

Name (please type) SANTOSH KUMAR SUD

Signature *Santosh Kumar Sud*

Date 5/3/88

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. A copy of your approved plan must be sent to the landowner.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A
SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)



**ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER	CAD981692809
INSTALLATION ADDRESS	WILLARD TRUCKING PO BOX 624 ROCKO 455 FAIRFORD REPCULES CA 94572 CA 94547

Co. 01

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

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES 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: 04/15/88 CASE #:
 SIGNED: DATE: 04/25/1988

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT: Kyle Christie PHONE: (415) 571-2434 SIGNATURE: Greg Zentner agent for ARCO
 REPRESENTING: OWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER COMPANY OR AGENCY NAME: ARCO Petroleum Products Company
 ADDRESS: P.O. Box 5811 (2000 Alameda De Los Pulgas) San Mateo, CA 94402

RESPONSIBLE PARTY: NAME: ARCO Petroleum Products Co. CONTACT PERSON: Kyle Christie PHONE: (415) 571-2434
 ADDRESS: P.O. Box 5811 (2000 Alameda De Los Pulgas) San Mateo, CA 94402

SITE LOCATION: FACILITY NAME (IF APPLICABLE): ARCO Service Station No. 374 OPERATOR: ARCO Petroleum Products Co. PHONE: (415) 658-7508
 ADDRESS: Telegraph & Alcatraz Avenues, Oakland, CA Alameda
 CROSS STREET: Alcatraz Avenue TYPE OF AREA: COMMERCIAL INDUSTRIAL RURAL RESIDENTIAL OTHER TYPE OF BUSINESS: RETAIL FUEL STATION FARM OTHER

IMPLEMENTING AGENCIES: LOCAL AGENCY: Alameda Co. Environmental Health AGENCY NAME: CONTACT PERSON: T.M. Gerow PHONE: (415) 874-6434
 REGIONAL BOARD: San Francisco Bay Area CONTACT PERSON: Greg Zentner PHONE: (415) 464-0840

SUBSTANCES INVOLVED: (1) Gasoline NAME: QUANTITY LOST (GALLONS): UNKNOWN

DISCOVERY/ABATEMENT: DATE DISCOVERED: 04/15/88 HOW DISCOVERED: INVENTORY CONTROL SUBSURFACE MONITORING TANK TEST TANK REMOVAL OTHER: Drilling Investigation
 DATE DISCHARGE BEGAN: UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY):
 REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEDURE
 OTHER

SOURCE/CAUSE: SOURCE OF DISCHARGE: TANK LEAK UNKNOWN PIPING LEAK OTHER
 TANKS ONLY/CAPACITY: _____ GAL. MATERIAL: FIBERGLASS STEEL OTHER
 AGE: _____ YRS. CAUSE(S): OVERFILL RUPTURE/FAILURE CORROSION UNKNOWN SPILL OTHER

CASE TYPE: CHECK ONE ONLY UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS: CHECK ONE ONLY SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) CLEANUP IN PROGRESS SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
 NO ACTION TAKEN POST CLEANUP MONITORING IN PROGRESS NO FUNDS AVAILABLE TO PROCEED EVALUATING CLEANUP ALTERNATIVES

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

COMMENTS:

BROWN AND CALDWELL



CONSULTING ENGINEERS

April 5, 1988

Mr. Ed Howell
Alameda County Public Health Service
Hazardous Materials Section
470 27th Street
Oakland, California 94612

11-3310-03/1

Subject: Underground Storage Tank Unauthorized
Release Report for Arco Station 374

Dear Mr. Howell:

On behalf of Arco Petroleum Products Company (Arco), enclosed is an Unauthorized Release Report for Arco Station 374, located at 6407 Telegraph Avenue, Oakland, California. The leak in the unleaded system product line and vapor/vent lines was discovered during the annual tank integrity tests conducted at this station on February 8, 1988. Pumping of the unleaded gasoline was stopped immediately after the tank test.

There are three islands serving unleaded gasoline at this station. The product line to one of the islands has been repaired, and the unleaded gasoline pump was put back into service on February 12, 1988. Arco is currently repairing/replacing the unleaded product lines for the remaining two islands. Any subsequent retest results will be forwarded to you as soon as possible. If you have any questions regarding this station, please call Mr. Alex Woelper of Arco at 916-484-6361, or me.

Very truly yours,

BROWN AND CALDWELL

Margit Bantowsky
Margit Bantowsky

MB:cl
Enclosure

cc/enc: Ms. Karen Schultheis, Arco Petroleum Products Company,
San Mateo, California
Mr. Hank Sheetz, Arco Petroleum Products Company,
San Mateo, California
Mr. Alex Woelper, Arco Petroleum Products Company,
Sacramento, California
Mr. Greg Zentner, San Francisco Bay Water Quality Control
Board, Oakland, California



UNDERGROUND STORAGE TANK AUTHORIZED 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	STATE TANK ID: E/ham RHD
--	---	---

REPORT DATE 03/10/88	LOCAL CASE #	REGIONAL BOARD CASE #	US EPA ID # 4/5
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REPORTED BY	NAME OF INDIVIDUAL FILING REPORT HANK SHEETZ	PHONE ID# 484-1304 (800) 825-4444	SIGNATURE <i>Hank Sheetz FOR ARCO</i>	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD	COMPANY OR AGENCY NAME ARCO PETROLEUM PRODUCTS COMPANY		
	ADDRESS P.O. BOX 5811 SAN MATEO CA 94403			

RESPONSIBLE PARTY	NAME ARCO PETROLEUM PRODUCTS CO. UNKNOWN	CONTACT PERSON HANK SHEETZ	PHONE ID# 484-1304 (800) 825-4444
	ADDRESS POST OFFICE BOX 5811 SAN MATEO CA 94403		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO FACILITY 374	OPERATOR SANTOSH KUMAR SUD	PHONE (415) 1658-7508	
	ADDRESS 6407 TELEGRAPH STREET OAKLAND CA 94609			
	CROSS STREET	TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> RURAL <input type="checkbox"/> OTHER	TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER	

IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME ALAMEDA CO. PUBLIC HEALTH	CONTACT PERSON ED HOWELL	PHONE (415) 1874-7237
	REGIONAL BOARD S.F. BAY AREA REGIONAL WATER QUAL. CONTROL	CONTACT PERSON PETER JOHNSON	PHONE (415) 464-0838
	TSCD		

SUBSTANCES INVOLVED	CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME	QUANTITY LOST (GALLONS)
	(1) GASOLINE (UNLEADED)	<input checked="" type="checkbox"/> UNKNOWN
(2)		<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 03/10/88	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> TANK INTEGRITY <input type="checkbox"/> ROUTINE MONITORING <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER: TESTING	
	DATE DISCHARGE BEGAN M M D 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 PROCEDURES <input checked="" type="checkbox"/> OTHER: SHUT DOWN PUMP	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE M M D D Y Y		

SOURCE/CAUSE	SOURCE(S) OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK	TANKS ONLY/CAPACITY _____ GAL AGE _____ YRS. <input type="checkbox"/> UNKNOWN MATERIAL <input type="checkbox"/> STEEL <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER
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RESOURCES AFFECTED/AT RISK	RESOURCES AFFECTED	WATER SUPPLIES AFFECTED																																																																							
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GROUNDWATER BASIN NAME <input checked="" type="checkbox"/> UNKNOWN																																																																									

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

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO STATE TANK ID # *Selmann ACND 4/19*

REPORT DATE *03/31/88* LOCAL CASE # REGIONAL BOARD CASE # US EPA ID #

REPORTED BY NAME OF INDIVIDUAL FILING REPORT *ALEX WOELPER* PHONE *(916) 484-6361* SIGNATURE *Walter Ben X of Brown + Caldwell as Agent to ARCO.*
 REPRESENTING LOCAL AGENCY OTHER OWNER/OPERATOR REGIONAL BOARD COMPANY OR AGENCY NAME *ARCO PETROLEUM PRODUCTS CO.*
 ADDRESS *2000 ALAMEDA DELAS PULGAS, SAN MATEO, CA 94403*

RESPONSIBLE PARTY NAME *ARCO PETROLEUM PRODUCTS CO.* CONTACT PERSON *KYLE CHRISTIE* PHONE *(415) 571-2434*
 ADDRESS *2000 ALAMEDA DE LAS PULGAS, SAN MATEO, CA 94403*

SITE LOCATION FACILITY NAME (IF APPLICABLE) *ARCO STATION 374* OPERATOR *SANTOSH KUMAR SUD* PHONE *(415) 658-7508*
 ADDRESS *6407 Telegraph Ave. OAKLAND, CA ALAMEDA, 94609*
 CROSS STREET TYPE OF AREA COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL OTHER TYPE OF BUSINESS RETAIL FUEL STATION UNKNOWN OTHER

IMPLEMENTING AGENCIES LOCAL AGENCY *ALAMEDA COUNTY HEALTH DPT.* AGENCY NAME CONTACT PERSON *ED HOWELL* PHONE *(415) 874-7237*
 REGIONAL BOARD *S.F. BAY REGIONAL WATER BOARD* CONTACT PERSON *GREG ZENTNER* PHONE *(415) 464-0804*
 TSCD

SUBSTANCE(S) INVOLVED CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME *GASOLINE, UNLEADED* QUANTITY LOST (GALLONS) *~20 during test*
 (1) (2) UNKNOWN

DISCOVERY/ABATEMENT DATE DISCOVERED *02/08/88* HOW DISCOVERED INVENTORY CONTROL SUBSURFACE MONITORING OTHER: *tank integrity test, manual*
 ROUTINE MONITORING TANK REMOVAL NUISANCE CONDITIONS
 DATE DISCHARGE BEGAN UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
 REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEDURES
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE *02/08/88* OTHER: *stopped pumping unleaded*

SOURCE/CAUSE SOURCE(S) OF DISCHARGE TANK LEAK UNKNOWN PIPING LEAK
 TANKS ONLY/CAPACITY GAL AGE YRS. UNKNOWN MATERIAL STEEL FIBERGLASS OTHER
 CAUSE(S) OVERFILL CORROSION RUPTURE/FAILURE SPILL UNKNOWN OTHER

RESOURCES AFFECTED/AT RISK	RESOURCES AFFECTED				WATER SUPPLIES AFFECTED				# OF WELLS
	YES	NO	THREATENED	UNKNOWN	YES	NO	THREATENED	UNKNOWN	
AIR (VAPOR)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
SOIL (VADOSE ZONE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
GROUNDWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
SURFACE WATER OR STORM DRAIN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
BUILDING OR UTILITY VAULT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---
OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	---

COMMENTS: *Test showed product line and vapor/Vent line failure. Two islands in front of station have been out of service since 2/8/88. Single side-island has been placed into service 2/12/88 after repairs.*
 GROUNDWATER BASIN NAME UNKNOWN

New Loc. 01 62

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT										
CALIFORNIA REGIONAL WATER										
EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO			STATE TANK ID # <i>Seaman</i>					
REPORT DATE 03/31/88		LOCAL CASE #			APR 22 1988		REGIONAL BOARD CASE #		US EPA ID #	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT ALEX WOELPER			QUALIFYING CONTROL BOARD (916) 484-6361			SIGNATURE <i>Walter Ben J of Brown + Caldwell</i> as Agent to ARCO.			
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER			COMPANY OR AGENCY NAME ARCO PETROLEUM PRODUCTS CO.						
RESPONSIBLE PARTY	<input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD			ADDRESS 2000 ALAMEDA DELAS PULGAS, SAN MATEO, CA 94403						
	NAME ARCO PETROLEUM PRODUCTS CO. UNKNOWN			CONTACT PERSON KYLE CHRISTIE			PHONE (415) 571-2434			
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO STATION 374			OPERATOR SANTOSH KUMAR SUD			PHONE (415) 658-7508			
	ADDRESS 6407 Telegraph Ave. OAKLAND, CA ALAMEDA, CA 94609									
	CROSS STREET			TYPE OF AREA <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> RURAL <input type="checkbox"/> OTHER			TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA COUNTY HEALTH DPT.			AGENCY NAME			CONTACT PERSON ED HOWELL			PHONE (415) 874-7237
	REGIONAL BOARD S.F. BAY REGIONAL WATER BOARD			TSCD			CONTACT PERSON GREG ZENTNER			PHONE (415) 464-0804
	SUBSTANCES INVOLVED (1) GASOLINE, UNLEADED			CAS # (ATTACH EXTRA SHEET IF NEEDED)			NAME			QUANTITY LOST (GALLONS) 520 during test
DISCOVERY/ABATEMENT	DATE DISCOVERED 02/08/88			HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> ROUTINE MONITORING <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER: <i>tank integrity test, annual</i>			DATE DISCHARGE BEGAN M M D 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 type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURES <input checked="" type="checkbox"/> OTHER: <i>stopped pumping unleaded</i>
	SOURCE(S) OF DISCHARGE <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN			TANKS ONLY/CAPACITY _____ GAL			CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	RESOURCES AFFECTED AT RISK			WATER SUPPLIES AFFECTED			THREAT-ENED			# OF UN-KNOWN WELLS
AIR (VAPOR)			PUBLIC DRINKING WATER			PRIVATE DRINKING WATER			INDUSTRIAL	
SOIL (VADOSE ZONE)			AGRICULTURAL			OTHER (SPECIFY)				
GROUNDWATER										
SURFACE WATER OR STORM DRAIN										
BUILDING OR UTILITY VAULT										
OTHER (SPECIFY)										
COMMENTS: <i>Test showed product line and vapor/vent line failure. Two islands in front of station have been out of service since 2/8/88. Single side-island has been placed into service 2/12/88 after repairs.</i>			GROUNDWATER BASIN NAME							

BROWN AND CALDWELL



CONSULTING ENGINEERS

CALIFORNIA REGIONAL WATER

March 24, 1988

APR 1 1988

Mr. Ed Howell
Alameda County Public Health Service
Hazardous Materials Section
470 27th Street
Oakland, California 94612

QUALITY CONTROL BOARD

11-3310-03/1

Subject: Unauthorized Release Reports for
Arco Stations 374, 2169, and 4494

Dear Mr. Howell:

On behalf of Arco Petroleum Products Company (Arco), enclosed are leak reports for the failed tank integrity tests at the following Arco stations in Oakland, California:

<u>Arco station</u>	<u>Address</u>	<u>Test date</u>	<u>Failed system</u>
374	6407 Telegraph Avenue	2/08/88	Unleaded
2169	889 West Grand Avenue	2/17/88	Regular, unleaded, and super unleaded
4494	566 Hegenberger Road	2/19/88	Regular and unleaded

The above-mentioned systems all failed the product line pressure test. These systems were shut down until repairs could be made and will start up again only after passing a retest. The retest results will be forwarded to you as soon as possible. If you have any questions regarding these stations, please call Ms. Margit Bantowsky or me.

Very truly yours,

BROWN AND CALDWELL

Margit Bantowsky for
Kenneth Chiang

MB:cl
Enclosures (3)

cc/ Mr. Peter Johnson, San Francisco Bay Area Regional Water
Quality Control Board, Oakland, California
enc/ Ms. Karen Schultheis, Arco Petroleum Products Company,
San Mateo, California
Mr. Hank Sheetz, Arco Petroleum Products Company, San Mateo,
California
Mr. Alex Woelper, Arco Petroleum Products Company, Sacramento

ARCO Petroleum Products Company

3134 Auburn Boulevard
Sacramento, California 95821
Telephone (916) 484-6361



March 14, 1988

Alameda County
Environmental Health Services
470-27th Street, 3rd Floor
Oakland, CA 94612

Attn: Hazardous Materials

SUBJECT: Tank Test Results
ARCO Station No. 374
6407 Telegraph Avenue
Oakland, CA

RECEIVED
MAR 21 1988

HAZARDOUS MATERIALS/
WASTE PROGRAM

Dear Sirs:

This letter is to notify you that the tanks and piping at the above station did not pass the latest tank test, as noted in the attached test results.

All failed systems will be repaired or replaced, and then followed-up with a retest. The retest results will be forwarded to you as early as possible.

ARCO is committed to the compliance of all environmental laws that govern the safe operation of underground storage tanks. Feel free to call me with any questions at 916-484-6361.

Sincerely,

Alex Woelper
Tank Testing Manager

AW:nj
Enclosure

ARCO Petroleum Products Company

3134 Auburn Boulevard
Sacramento, California 95821
Telephone (916) 484-6361



March 8, 1988

Alameda Environmental Health
Services
470-27th Street, 3rd Floor
Oakland, CA 94612

Attn: Hazardous Materials

SUBJECT: Tank Test Results
ARCO Station No. 374
6407 Telegraph Avenue
Oakland, CA

Dear Sirs:

This letter is to notify you that the tanks and piping at the above station did not pass the latest tank test, as noted in the attached test results.

All failed systems will be repaired or replaced, and then followed-up with a retest. The retest results will be forwarded to you as early as possible.

ARCO is committed to the compliance of all environmental laws that govern the safe operation of underground storage tanks. Feel free to call me with any questions at 916-484-6361.

Sincerely,

Alex Woelper
Tank Testing Manager

AW:nj
Enclosure

HUNTER ENVIRONMENTAL SERVICES, INC.
 19350 MT. LANGLEY STREET, SUITE 101
 FOUNTAIN VALLEY, CA 92708
 800-247-9014 800-247-2186

FINAL TEST RESULTS
 TEST DATE: 2/8/88

CUSTOMER: ARCO
 ADDRESS: 6407 TELEGRAPH AVE.
 OAKLAND, CA

LOCATION/IDENTIFICATION NO.: 374

TEST RESULTS SUMMARY

NO.	SYSTEM PRODUCT	TANK SIZE		WATER INCHES	LEVEL INCHES	LEAK LOKATOR RESULTS		RECOMMENDATIONS
		GALLONS	DIA/MATL			ALR GPH	CONCLUSION	
1	S/U	6000	95/ST	0	161	-.030	TIGHT	
2	U/L	4000	76/ST	0	154	-.660	LEAK	
	U/L	4000	76/ST	0	84	+.010	TIGHT	
3	REG	6000	95/ST	0	164	-.020	TIGHT	

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	SYSTEM PRODUCT	TYPE OF PUMP		POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT LOSS CC's	PRODUCT LOSS GPH	CONCLUSION /RESULT
		REMOTE	SUCTION						
1	S/U	RED JACKET		50		10			PASS
2	U/L	RED JACKET		50	0	.5			FAIL
3	REG	RED JACKET		50		10			PASS

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

NO.	SYSTEM PRODUCT	TEST NO.	TEST LEVEL (IN.)	TIME		LEAK RATE		TEMPERATURE COMPENSATION		ABSOLUTE LEAK RATE		CHECK TEST Y/N
				CLOCK STATE	DURATION (HR-MIN)	CC/DIV	CC/MIN	DELTA OF CC/MIN	CC/MIN	GPH		
1	S/U	1	161	11:20	:34	2.120	+6.920	+0.021	+5.290	-1.630	-.030	N
2	U/L	1	154	10:10	:42	2.420	-28.220	+0.054	+13.420	-41.640	-.660	Y
		2	84	12:21	:39	3.960	+13.200	+0.035	+12.590	+6.610	+0.010	Y
3	REG	1	164	2:10	:30	6.930	+8.170	+0.036	+9.530	-1.360	-.020	N

*LEVEL - Inches from Tank Bottom to Test Level

ALR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour

CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

CERTIFIED

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 19
 Team Manager: A. CHAND
 Tank Testing Specialist: E. PRICE



ENVIRONMENTAL SERVICES, INC.

115 DEWALT AVENUE, N.W.
 SUITE 400
 CANTON, OH 44702
 216-453-1800 800-523-4370



TEST RESULTS

DATE OF TEST Feb 8 th 1988
CONTRACT NUMBER

CUSTOMER ARCO		
LOCATION - IDENTIFICATION NUMBER 00374	NAME	
ADDRESS 6407 Telegraph Ave.	CITY Oakland	STATE California

TEST RESULTS SUMMARY								LEAK LOKATOR USE ONLY		
SYSTEM	PRODUCT	TANK SIZE		WATER INCHES	LEAK LOKATOR RESULTS*			CONCL. CODE		
		GALLONS	DIA/MATL		LEVEL INCHES	ALR GPH	CONCLUSION	RECOMMENDATIONS	TEST	TANK
1	SUP	6000	95" St	⊖	161"	-.030	Tight			
2	UNL	4000	76" St	⊖	154"	-.660	Leak			
	UNL	4000	76" St	⊖	84"	+.010	Tight			
3	REG	6000	95" St	⊖	164"	-.020	Tight			

OTHER INFORMATION

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	SYSTEM PRODUCT	TYPE OF PUMP		# APPLIED	MINUTES APPLIED	PRODUCT LOSS CC'S	PRODUCT LOSS GPH	CONCLUSION/ RESULT
		REMOTE	SUCTION					
1	SUP	Redjacket	N / A	50 psi	10 mins	N / A	N / A	Tight
2	UNL	Redjacket	N / A	50-0 psi	.5 mins	N / A	N / A	Leak
3	REG	Redjacket	N / N	50 psi	10 mins	N / A	N / A	Tight

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

TANK AND LOCATION DATA

DATE: Feb 8th 1988

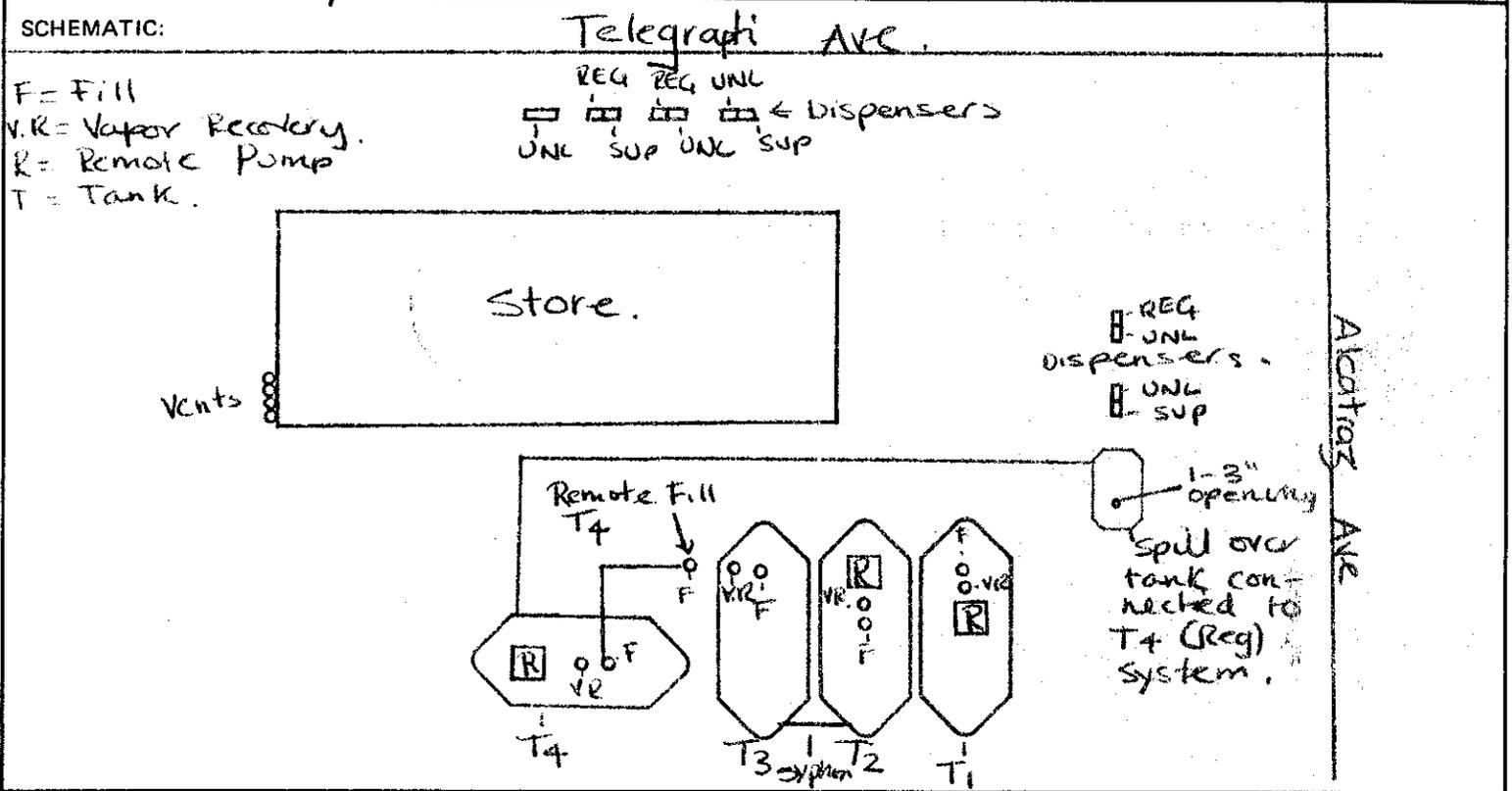
CUSTOMER: ARCO

CITY: Oakland

I.D. # 00374

STATE: California

WEATHER	TIME	TEMPERATURE	COMMENTS
BEFORE TEST - <u>Carm/Warm</u>	<u>8:30 AM</u>		
AFTER TEST - <u>Carm/Warm</u>	<u>3:30 PM</u>		



BEFORE DELIVERY	PRODUCT/TANK NO.	SUP T ₁		UNL T ₂		UNL T ₃		REG T ₄		Fill	Gauge
	LEVEL	Fill	Gauge	Fill	Gauge	Fill	Gauge	Fill	Gauge		
	GALLONS										
	WATER	⊕		⊕		⊕		⊕			
	TOP OF RISER	137"		124"		125"		140"			
	GRADE	144"		130"		132"		144"			
	DROP TUBE	ALUM		ALUM		ALUM		ALUM			

RETEST - 2/24/88

TEST RESULT COVER SHEET

CUSTOMER NAME: ARCO-NORTH

ADDRESS: 6407 TELEGRAPH *St. Ave.*

LOCATION NO: 00374

CITY: OAKLAND

STATE: CA

COUNTY: ALAMEDA

STATION OWNER: S. KUMAR SUD

PHONE: 415-658-7508

TESTED BY: HUNTER

DATE TESTED: 02/08/88

ACCOUNT NO: 0503449

PRODUCT	GALLONS	RESULT OF FULL SYSTEM TEST	RESULT OF TANK TOP TEST		PRODUCT	RESULT
-----	-----	-----	-----		-----	-----
TANK #1 U/L #1	4000	LEAK	TIGHT	o	PRODUCT LINE #1	U/L PASS
TANK #2 U/L #2	14000			o	PRODUCT LINE #2	
TANK #3				o	PRODUCT LINE #3	
TANK #4				o	PRODUCT LINE #4	
TANK #5				o	PRODUCT LINE #5	
TANK #6				o	PRODUCT LINE #6	

COUNTY CONTACTED: PHONE _____
LETTER _____

REPAIR CONTRACTOR: Grettler

COMPLETION DATE: 2 12 / 88

RETEST DATE: 02/24/88

PASS / FAIL

HUNTER ENVIRONMENTAL SERVICES, INC.
 18350 MT. LANGLEY STREET, SUITE 101
 FOUNTAIN VALLEY, CA 92708
 800-247-9014 800-247-2186

FINAL TEST RESULTS
 TEST DATE: 02/24/88

CUSTOMER: ARCO
 ADDRESS: 6407 Telegraph
 Oakland, CA

LOCATION/IDENTIFICATION NO.: 00374

TEST RESULTS SUMMARY

NO.	SYSTEM PRODUCT	TANK SIZE		WATER INCHES	LEVEL INCHES	LEAK LOKATOR RESULTS	
		GALLONS	DIA/MATL			ALR GPH	CONCLUSION
1/2	U/L#1	4000	76/ST	0	149	-.375	Leak
	U/L#2 (siphon)	4000	76/ST	0			
	Lower Level Test				109	+.030	Tight

Other Information: Top off arrive at 1:30 - finished top off at 2:15 Truck left at 2:50

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	SYSTEM PRODUCT	TYPE OF PUMP		POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT LOSS CC's	PRODUCT LOSS GPH	CONCLUSION /RESULT
		REMOTE	SUCTION						
1	U/L	Red Jacket		50		10			Pass

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

NO.	SYSTEM PRODUCT	TEST NO.	TEST LEVEL (IN.)	TIME		LEAK RATE		TEMPERATURE COMPENSATION		ABSOLUTE LEAK RATE		CHECK TEST Y/N
				CLOCK STATE	DURATION (HR-MIN)	CC/DIV	CC/MIN	DELTA °F	CC/MIN	CC/MIN	GPH	
1	U/L	1	149	3:20	35 min	1.805	-6.251	+1.106	+17.386	-23.637	-.375	Y
		2	109	4:40	31 min	2.787	+10.104	+0.050	+8.201	+1.903	+.030	N

*LEVEL - Inches from Tank Bottom to Test Level
 ALR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour
 CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 30
 Team Manager: Dale Bober
 Tank Testing Specialist: Sal Ringer

Hunter

ENVIRONMENTAL SERVICES, INC.

115 DEWALT AVENUE, N.W.
 SUITE 400
 CANTON, OH 44702
 216-453-1800 800-523-4370

leak lokator LD2000

TEST RESULTS

DATE OF TEST 2-24-88
CONTRACT NUMBER

CUSTOMER: **Arco**

LOCATION - IDENTIFICATION NUMBER: **00374** NAME: _____

ADDRESS: **6407 Telegraph** CITY: **OAKLAND** STATE: **CA.**

TEST RESULTS SUMMARY

SYSTEM	TANK SIZE		WATER INCHES	LEAK LOKATOR RESULTS*			RECOMMENDATIONS	LEAK LOKATOR USE ONLY		
	PRODUCT	GALLONS		DIA/MATL	LEVEL INCHES	ALR GPH		CONCLUSION	CONCL. CODE	TEST
1 Unleaded	T1=4k	76" Steel	0	149	-0.295	Leaker				
	T2=4k	76" Steel	0	109	+0.030	Tight				

OTHER INFORMATION: **Top off Arco at 1:30 - finished top off at 2:15**
TRUCK left at 2:50

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

CONCLUSION/
 RESULT
 73
 98
 1

TANK AND LOCATION DATA

DATE: 2-24-88

CUSTOMER: Arco

CITY: OAKLAND

I.D. # 00374

STATE: CA

WEATHER	TIME	TEMPERATURE	COMMENTS
BEFORE TEST - Clear	12:30 PM	61°F	
AFTER TEST - Clear	1:30 PM	63°F	

SCHEMATIC:

← Alcatraz →

R 4 4 5

9 4 5 1

