





To: Cc: Scott Robinson (E-mail) Paul Supple (E-mail)

Subject:

ro-76 sampling frequency change

Your request to reduce sampling of well A-12 to annual and to discontinue sampling of well A-13 at 731 West MacArthur is approved. Sincerely,

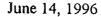
Bob

Robert W. Schultz, R.G. Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502 510-567-6719 (direct) 510-337-9335 (facsimile)

ARCO Products Compa

Post Office Box 612530 San Jose, California 95161

Environmental Remediation



Projects: 330-084.5C/330-105.5B

330-106.5C/330-109.5B

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

Re: Request to Relinquish Wastewater Discharge Permits Miscellaneous sites

Dear Ms. Jenne:

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

1. Discharge Permit 502-85611
ARCO Service Station 0374
6407 Telegraph Avenue
Oakland, California

3. Discharge Permit 502-65201
ARCO Service Station 2112
1260 Park Street
Alameda, California

 Discharge Permit 502-64411
 ARCO Service Station 2107
 3310 Park Boulevard at East 34th Street Oakland, California

4. Discharge Permit 502-62131
ARCO Service Station 4931
731 West MacArthur Boulevard
Oakland, California

Sincerely,

ARCO Products Company

Withel Whele

Michael Whelan

Environmental Engineer

cc: Mr. Barney Chan, Alameda County Health Care Services Agency

Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region

Ms. Susan Hugo, Alameda County Health Care Services Agency

Mr. Shaw Garakani, Pacific Environmental Group, Inc.

ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT

ENVIRONMENTAL PROTECTION DIVISION

1131 Harbor Bay Parkway, Suite #250

Alameda, CA 94502-6577

Telephone (510) 567-6700

Fax Number (510) 337-9335

FAX COVER SHEET

DATE:	August 16 , 19 95	
TO:	MICHAEL WHELAND	
	ARCO	
	.FAX # (<u>408)</u> 317-836/	
Total num	per of pages including cover sheet	<u>a</u>
FROM:	SUSAN HUGO	
NOTE: Per ye	ur request.	
		-

(SMILE) have a nice day.

DO SOMETHING FOR OUR ENVIRONMENT.

jdsb/0395

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

STID#	ACHD CONTACT	ARCO#	ADDRESS
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

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:	<u>June</u> 27 , 1995	*
TO:	DAVID LARSON	
	FAX # (408) 453-0452 Der of pages including cover sheet	2
	Susan L. Hugo	
OTE:	of ARCO SITES & correspond	ling
conto	act person.	
		-

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

jdsb/0395

(6/27/95)

LIST OF ARCO SITES WITH UGT CLEANUP

STID#	ACHD CONTACT	ARCO FACILITY#	ADDRE:	<u>SS</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

ALAMEDA JAK HAZARDOUS MATERIALS I I DEPOSIT / REFUND ACCOUNT SHEET

printed05/01/95

SITE INFORMATION

Arco Station
731 W. Mac Arthur Blvd
Oakland 94609
Site Contact:
Site Phone :

StID:	3874	Site#:	5024
PROJE			5024A
PROJE	CT TYP	E: I	
INSP:	Brian	Oliva	
		PC #.	

PROPERTY OWNER INFORMATION

Atlantic Richfield Co. 2000 Alameda De Las Pulgas San Mateo, Ca 94403 Owner Contact: Owner Phone : 658-5000

PAYOR INFORMATION

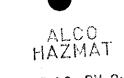
Gettler - Ryan Inc 2150 W Winton Ave Hayward CA 94545 # 46 Payor Contact: John P. Werfal Payor Phone : 510/783-7500

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8,75

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





91, SEP 13 PH 2: 14 September 9, 1994

Ms. Susan Hugo Alameda County Heath 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

APPC-7025-D (9-88)

ALAMEDA.XLS

ALAMEDA COUNTY HEALTH DEPT.

Facility			New	ARCO	ARCO Engineer
Number	City	Address	Consulting Firm	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 Zurilnden 9616 micro Ave Sacramento, CA 95813-3449 (916) 444-0123 Fax (916) 856-5277 Ron Halsey 16735 Von Karman, Sutte 200 Irvine, CA 92714-4918 (714) 660-1070 Fax (714) 474-0940 Mike Higman 9040 Frairs Rd, Sutte 220 San Diego, CA 92108 (619) 528-9090 Fax (619) 528-9199		Mat Quinn 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016
	Jon Pesicka 27141 Allso 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 Jon Pesicka (714) 362-3077 Fax (714) 362-0290		Debble Fluckiger 27141 Ailso Creek Rd, # 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290
Emcon	Jack Hardin 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526	Rob Dixon 15055 SW Sequoia Pkwy, Sulte 140 Portland, OR 97224-7712 (503) 624-7200 Fax (503) 620-7658 Jay Johnson 1433 N Ave Market Blvd. Sacramento, CA 95834-1943 (916) 928-3300 Fax (916) 928-3341		Jeanette Memeo 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526

TOTAL P. R.S.

CONSULTANTS CONTACTS

Consultant Name	ARCO Program Manager (APM)	Technical Coordinator (TC)	Area	Administrative Coordinator (AC)
Emcon	Jack Hardin	Rlc Morgan 120 Columbia, Suite 500 Aliso Viejo, CA 92656 (714) 362-1130 Fax (714) 362-1137	SW	Jeanette Merneo
Pacific Enviro Group	Debra Moser 2025 Gate Way Place, Suite 440 San Jose, CA 951 10 (408) 441-7500 Fax (408) 441-7539	Greg Barclay 3050 Fite Circle, Suite 101 Sacramento, CA 95827 (916) 361-8091 Fax (916) 361-8094 Cleve Solomon 650 N Sierra Madre Villa, Suite 204 Pasadena, CA 91107 (818) 351-4814 Fax (818) 351-4822		Norma Gutlerrez 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500 Fax (408) 441-7539
Seacor	David Childs 1913 Volcanic Dr. Benton, AR 72015-2161 (501) 776-3400 Fax (501) 776-3053	Jim Ritchle 90 New Montgomery St, Suite 620 San Francisco, CA 94015-4503 (415) 882-1548 Fax (415) 882-4406 Kyle Emerson 1180 Nevada St, Suite 200 Rediands, CA 92374 (909) 335-6116 Fax (909) 335-6120 Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 Fax (805) 546-0583		Cindy Malloy 1734 - 34th St Sacramento, CA 95816-7004 (916) 456-4333 Fax (916) 456-0110

HEALTH CARE SERVICES

AGENCY DAVID'J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

STID # 3874 August 19, 1994 DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Division 80 Swan Way, Rm. 200 Oakland, CA 94621 (510) 271-4320

Ms. Judy Mason Arco, Environmental Compliance Administrator 4 Centerpoint Drive La Palma, California 90623-1066

Mailing Address: Box 6038

Artesia, California 90702-6036

Re: FIVE YEAR UNDERGROUND STORAGE TANK PERMIT AT,

ARCO #04931, 731 WEST MACARTHUR BLUD., OAKLAND 94611

Dear Ms. Mason:

Enclosed is your five year permit to operate four underground fuel tanks tank at the above referenced facility. These tanks are double-walled with fiberglass exterior. Their associated piping is also double-walled, with fiberglass secondary piping.

To operate under a valid permit, you are required to comply with the conditions in Title 23 of the California Code of Regulations (CCR). Based on these requirements, all four tanks and associated piping are monitored by an electronic alarm system.

You may consult the revised Title 23, CCR for additional requirements. To obtain a copy of the regulations, you may contact the State Water Resources Control Board at (916) 657-0917.

Please, do not hesitate to contact me with any questions at (510) 567-6731, Monday through Thursday.

Sincerely

Kevin Tinsley

Hazardous Materials Specialist

c, Edgar Howell, Chief - files (kt)
Don Hwang, Hazardous Materials Specialist
Susan Hugo, Hazardous Materials Specialist



January 20, 1994 7900.01

Mr. Michael Whelan ARCO Products Company Post Office Box 5811 San Mateo, California 94402

Subject:

Monthly Site Status Update for ARCO Station 4931, 731

West MacArthur Boulevard, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of December, 1993, and site activities anticipated for the month of January, 1994.

Status of Previous Month's Activities:

- Performed operation and maintenance duties for the interim remedial system at the site.
- Performed fourth quarter 1993 monitoring of site wells.

HAZMAT

ARCO Station 4931 Monthly Site Status Report January 20, 1994

Anticipated Work to be Performed in the Next Month:

- Perform operation and maintenance duties for the interim remedial system at the site.
- Perform monitoring of wells at site to assist with interim remediation system performance evaluation.

If you have any questions or comments, please call us at (510) 551-7444 ext. 286.

Sincerely,

GeoStrategies, Inc.

Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency, Department of Environmental Health (Certified Mail)

Mr. Richard Hiett, RWQCB-San Francisco Bay Region

Mr. Mark Thomson, Alameda County District Attorney



December 14, 1993 7900.01

Mr. Michael Whelan ARCO Products Company Post Office Box 5811 San Mateo, California 94402

Subject:

Monthly Site Status Update for ARCO Station 4931, 731

West MacArthur Boulevard, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of November, 1993, and site activities anticipated for the month of December, 1993.

Status of Previous Month's Activities:

- Performed operation and maintenance duties for the interim remedial system at the site.
- · Performed fourth quarter 1993 monitoring of site wells.





93 NOV 22 AM 10: 57

November 18, 1993 7900.01

Mr. Michael Whelan ARCO Products Company Post Office Box 5811 San Mateo, California 94402

Subject:

Monthly Site Status Update for ARCO Station 4931, 731

West MacArthur Boulevard, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of October, 1993, and site activities anticipated for the month of November, 1993.

Status of Previous Month's Activities:

- Performed operation and maintenance duties for the interim remedial system at the site.
- · Performed fourth quarter 1993 monitoring of site wells.



ARCO Station 4931 Monthly Site Status Report

November 18, 1993

Anticipated Work to be Performed in the Next Month:

- Perform operation and maintenance duties for the interim remedial system at the site.
- Perform monitoring of wells at site to assist with interim remediation system performance evaluation.

If you have any questions or comments, please call us at (510) 551-7444 ext. 286.

Sincerely,

GeoStrategies, Inc.

Joel Coffman

Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,

Department of Environmental Health (Certified Mail)

Mr. Richard Hiett, RWQCB-San Francisco Bay Region

Mr. Mark Thomson, Alameda County District Attorney



October 12, 1993 7900.01

Mr. Michael Whelan ARCO Products Company Post Office Box 5811 San Mateo, California 94402

Subject:

Monthly Site Status Update for ARCO Station 4931, 731

West MacArthur Boulevard, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of September, 1993, and site activities anticipated for the month of October, 1993.

Status of Previous Month's Activities:

- Performed operation and maintenance duties for the interim remedial system at the site.
- Submitted a final Recovery System Evaluation Report for Second Quarter 1993 to ARCO and applicable Regulatory Agencies.
- Performed third quarter 1993 monitoring and sampling of site wells.

ARCO Station 4931 Monthly Site Status Report

October 12, 1993

Anticipated Work to be Performed in the Next Month:

- Perform operation and maintenance duties for the interim remedial system.
- Perform monitoring of wells at site to assist with interim remediation system evaluation.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely,

GeoStrategies, Inc.

Joel Coffman

Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,

Department of Environmental Health (Certified Mail) Mr. Richard Hiett, RWQCB-San Francisco Bay Region

Mr. Mark Thomson, Alameda County District Attorney



September 15, 1993 7900.01

Mr. Michael Whelan ARCO Products Company Post Office Box 5811 San Mateo, California 94402

Subject:

Monthly Site Status Update for ARCO Station 4931, 731

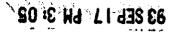
West MacArthur Boulevard, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of August, 1993, and site activities anticipated for the month of September, 1993.

Status of Previous Month's Activities:

- Performed operation and maintenance duties for the interim remedial system at the site.
- Submitted a draft Recovery System Evaluation Report presenting second quarter 1993 groundwater sampling and interim recovery system evaluation results to ARCO.
- Performed third quarter 1993 monitoring and sampling of site wells.





ARCO Station 4931 Monthly Site Status Report

September 15, 1993

Anticipated Work to be Performed in the Next Month:

- Perform operation and maintenance duties for the interim remedial system.
- Submit a final Recovery System Evaluation Report for second quarter 1993 to ARCO and applicable Regulatory Agencies.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely, GeoStrategies, Inc.

Joel Coffman Project Manager

ccaMs. Susan Hugo, Alameda County Health Care Services Agency, Department of Environmental Health (Certified Mail)
Mr. Richard Hiett, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? FOR LOCAL AGENCY USE ONLY EMERGENCY THEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE **X** YES YES NO NO DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. REPORT DATE CASE * N/A LESS THAN 5. GAL SIGNED PHONE (310) 407-2619 Lou REPORTED BY COMPANY OR AGENCY NAME OWNER/OPERATOR REGIONAL BOARD OTHER LOCAL AGENCY ADDRESS CONTACT PERSON NAME UNKNOWN ADDRESS PHONE LOCATION CROSS STREET AGENCY NAME EMENTING REGIONA (510) SUBSTANCES UNKNOWN (2)UNKNOWN DATE DISCOVERED **HOW DISCOVERED** SUBSURFACE MONITORING NUISANCE CONDITIONS INVENTORY CONTROL TANK REMOVAL OTHER TANK TEST DATE DISCHARGE BEGAN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) 0,9,0,6,9,3 REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING UNKNOWN CLOSE TANKS FILL IN PLACE HAS DISCHARGE BEEN STOPPED ? REPAIR TANK YES NO IF YES, DATE UNG SOURCE OF DISCHARGE SOURCE/ CAUSE TANK LEAK UNKNOWN **OVERFILL** RUPTURE/FAILURE UNKNOWN PIPING LEAK OTHER CORROSION CHECK ONE ONLY CASE DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) SOIL ONLY UNDETERMINED CHECK ONE ONLY POLLUTION CHARACTERIZATION NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POST CLEANUP MONITORING IN PROGRESS PRELIMINARY SITE ASSESSMENT UNDERWAY LEAK BEING CONFIRMED CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY REMEDIATION PLAN CHECK APPROPRIATE ACTION(S) **ENHANCED BIO DEGRADATION (IT)** REMOVE FREE PRODUCT (FP) **EXCAVATE & DISPOSE (ED)** (SEE BACK FOR DETAILS) REMEDIAL ACTION PUMP & TREAT GROUNDWATER (GT) [REPLACE SUPPLY (RS) CAP SITE (CD) EXCAVATE & TREAT (ET) VENT SOIL (VS) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) CONTAINMENT BARRIER (CB) VACUUM EXTRACT (VE), OTHER (OT)

INSTRUCTIONS

EMERGENCY

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

LOCAL AGENCY ONLY

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

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

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

SE TYPI

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

CURRENT STATUS

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

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

Leak Being Confirmed - Leak suspected at site, but has not been confirmed. Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release. Preliminary Site Assessment Underway - implementation of workplan. Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.

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

Cleanup Underway - implementation of remediation plan.

Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.

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

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

REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak.

Descriptions of options follow:

Cap-Site - install horizontal impermeable layer to reduce rainfall infiltration.

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

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water table.

<u>Pump and Treat Groundwater</u> - generally employed to remove dissolved contaminants.

Inhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants

Replace Supply - provide alternative water supply to affected parties.

Treatment at Bookup - install water treatment devices at each dwelling or other place of use.

Vacuum Extract - use pumps or blowers to draw air through soil.

Vent Soil - bore holes in soil to allow volatilization of contaminants.

No Action Required - incident is minor, requiring no remedial action.

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

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



na 18/1/22 1/1/10: 19

January 19, 1993

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

Subject:

Remediation Schedules for ARCO Sites in Alameda County,

California

Dear Mr. Heitt:

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

The darkened lines on the schedules represent deadlines which were agreed upon during the November 19, 1992 meeting. The hatchered 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.

Regional Water Quality Control Board January 19, 1993 Page 2

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

Sincerely,

John F. Vargas Project Manager

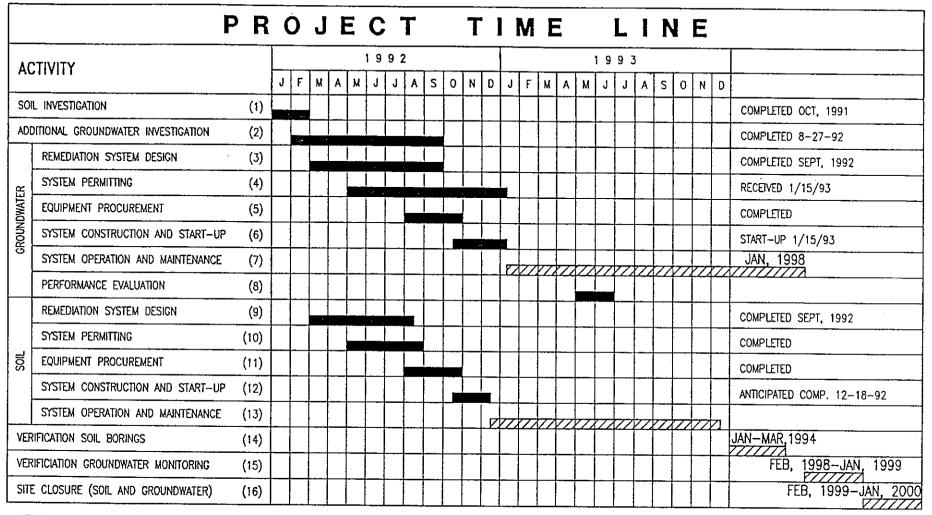
cc:

Ms. Susan Hugo, ACHA (Certified Mail)

Mr. Michael Whelan, ARCO Mr. John Meck, ARCO Legal

Mr. H.C. Winsor, ARCO

Mr. Mark Thomson, Alameda County DA (without attachments)



LEGEND

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

PROBABLE SCHEDULE

ESTIMATED SCHEDULE



GeoStrategies Inc.

REMEDIATION IMPLEMENTATION SCHEDULE ARCO Service Station #2112 1260 Park Street

1260 Park Street Alameda, California

DATE 1/92

REVISED DATE 1/93

PLATE

REVIEWED BY

7920-RTL

- (1) Soil Investigation
 - Soil contamination is on-site only and has been delineated by already completed work
- (2) Additional Ground-water Investigation
 - Ground-water investigation has been completed (GSI, September 25, 1992).
 - Ground-water contamination was delineated upon completion of the activities proposed in the work plan.
 - Field work, data evaluation, and reporting was completed on September 29, 1992.
- (3) Remediation System Design (Ground-water)
 - Ground-water remediation will only be required onsite.
 - A Remedial Action Plan (RAP) was submitted on September 27, 1992 detailing the design of the on-site ground-water remediation system.
- (4) Remediation System Permitting (Ground-water)
 - Modifications to design were required for permitting.
 - Planning/Building department approval was obtained on September 30, 1992.
 - Discharge permit approval was obtained on July 14, 1992. The permit was issued January 5, 1993.
- (5) **Equipment Procurement (Ground-water)**
 - No equipment modification due to agency/permitting requirements.
 - System equipment has been received.

CCI
43
JOB NUMBER

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

1/93

- (6) System Construction and Startup (Ground-water)
 - System construction was started on October 19, 1992.
 - System equipment installation is scheduled for completion on December 18, 1992.
 - Startup originally scheduled for February 1, 1993, and was performed on January 5, 1993.
- (7) System Operation and Maintenance (Ground-water)
 - Five year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after five years.
- (8) Performance Evaluation (Ground-water)
 - -Will show system is operating as designed and does not require modification.
- (9) Remediation System Design (Soil)
 - Soil remediation will only be required on-site.
 - A RAP was prepared detailing the design of the on-site soil remediation system and was submitted September 27, 1992.
 - No revisions were required following agency review.
- (10) System Permitting (Soil)
 - No modifications to design required for permitting
 - BAAQMD permit was issued August 10, 1992.
 - Building/Planning department approval was obtained September 30, 1992.



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

PLATE

REVIEWED BY

DATE 1/92 REVISED DATE 1/93

- (11)**Equipment Procurement (Soil)**
 - No special equipment modification due to agency/permitting requirements.
 - System equipment has been received.
- (12)System Construction and Startup (Soil)
 - System construction was started on October 19, 1992.
 - System equipment installation is scheduled for completion on December 18, 1992.
 - Startup is scheduled for December 21, 1992.
- (13)System Operation and Maintenance (Soil)
 - One year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after one year.
- (14)**Verification Soil Borings**
 - Borings demonstrate soil cleanup has been achieved no further system operation.
- (15)**Verification Monitoring**
 - One year (four quarters) of monitoring water-levels and sampling.
 - Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.
- (16) Site Closure
 - Agency approval based on results of verification borings, monitoring and sampling.

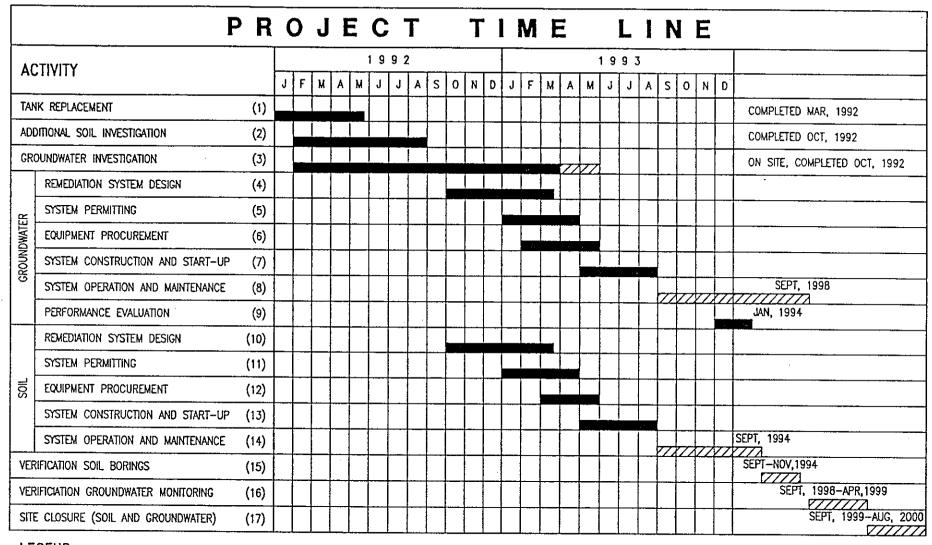


REMEDIATION IMPLEMENTATION SCHEDULE ARCO Service Station #2112 1260 Park Street Alameda, California

PLATE

DATE

REVISED DATE 12/92



LEGEND

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

PROBABLE SCHEDULE

EZZZZ ESTIMATED SCHEDULE



GeoStrategies Inc.

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

JOB NUMBER REVIEWED BY 7927—RTL

DATE 1/92 REVISED DATE 1/93

PLATE

(1) Tank Replacement

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

(2) Additional Soil Investigation

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

(3) Ground-water Investigation

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



GeoStrategies Inc.

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

2

PLATE

JOB NUMBER
7927-RTL

REVIEWED BY

DATE 1/92 REVISED DATE 12/92

- (4) Remediation System Design (Ground-water)
 - The tank replacement project will be completed by March 1992.
 - Ground-water remediation will only be required onsite.
 - A Remedial Action Plan (RAP) will be prepared detailing the design of the on-site ground-water remediation system.
 - The RAP will be approved by the Alameda County Health Agency within one month of submittal.
 - No revisions will be required following agency review.
- (5) Remediation System Permitting (Ground-water)
 - No modifications to design required for permitting.
 - Planning/Building department approval within 120 days.
 - BAAQMD permit within 90 days.
 - Discharge permit approval within 90 days.
- (6) Equipment Procurement (Ground-water)
 - No equipment modification due to agency/permitting requirements.
 - Equipment available from manufacturers stock within six weeks.



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

3

PLATE

JOB NUMBER REVIEWED BY 7927—RTL

DATE 1/92 REVISED DATE 12/92

- (7) System Construction and Startup (Ground-water)
 - No delays due to underground storage tank replacement.
 - No delays from utility companies.
 - No special dealer/property owner requirements.
 - No unusual contractor delays.
 - No unforeseen on-site conditions
 - No weather delays.
 - This task includes bid process, bid evaluation, contract completion and system construction.
- (8) System Operation and Maintenance (Ground-water)
 - Five year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after five years.
- (9) Performance Evaluation (Ground-water)
 - -Will show system is operating as designed and does not require modification.
- (10) Remediation System Design (Soil)
 - The tank replacement project will be completed by March 1992.
 - Soil remediation will only be required on-site only.
 - A RAP will be prepared detailing the design of the on-site soil remediation system.
 - The RAP will be approved by the Alameda County Health Care Services Agency within one month of submittal.
 - Soil vapor extraction is a feasible remediation method.
 - No revisions due to agency review.



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

PLATE

4

REVIEWED BY

DATE 1/92 REVISED DATE 1/93

(11) System Permitting (Soil)

- No modifications to system design required for permitting.
- BAAQMD approval within 120 days
- Building/Planning department approval within 120 days.
- (12) Equipment Procurement (Soil)
 - No special agency requirements.
 - Available from manufacturer stock within eight weeks.
- (13) System Construction and Startup (Soil)
 - No delays due to underground storage tank replacement.
 - No delays from utility companies.
 - No special dealer/property owner requirements.
 - No unusual contractor delays.
 - No unforeseen on-site conditions.
 - No weather delays.
- (14) System Operation and Maintenance (Soil)
 - One year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after one year.



GeoStrategies Inc.

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

5

JOB NUMBER 7927-RTL RÉVIÈWED BY

DATE 1/92 REVISED DATE 12/92

- (15)**Verification Borings**
 - Borings demonstrate soil cleanup has been achieved no further system operation.
- (16)**Verification Monitoring**
 - One year (four quarters) of monitoring water-levels and sampling.
 - Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.
- (16)Site Closure
 - Agency approval based on results of verification borings, monitoring and sampling.

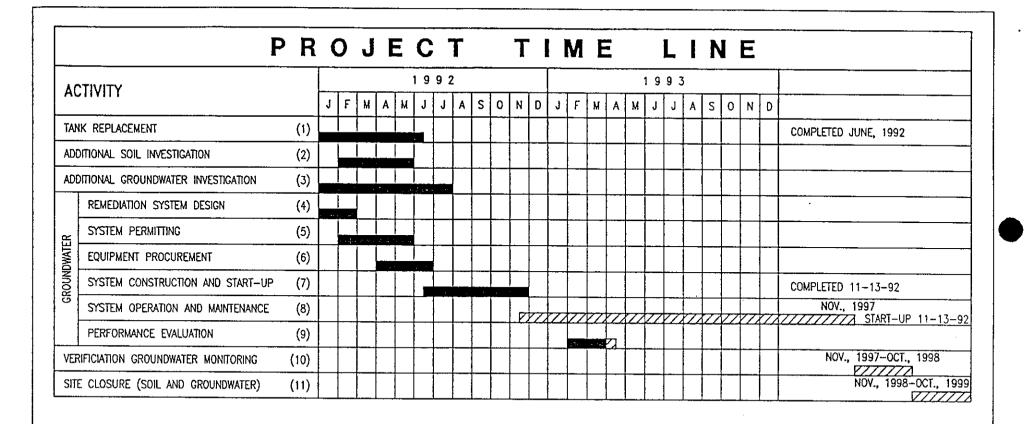


REMEDIATION IMPLEMENTATION SCHEDULE ARCO Service Station #2169 889 West Grand Avenue Oakland, California

JOB NUMBER 7927-RTL

REVIEWED BY

DATE 1/92 REVISED DATE 12/92



LEGEND

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

PROBABLE SCHEDULE

ESTIMATED SCHEDULE



GeoStrategies Inc.

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

JOB NUMBER 7909-RTL

REVIEWED BY

DATE 1/92 REVISED DATE 1/93

(1) Tank Replacement

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

(2) Additional Soil Investigation

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

(3) Additional Ground-water Investigation

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



GeoStrategies Inc.

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

2

PLATE

REVIEWED BY

DATE 1/92 REVISED DATE 12/92

- (4) Remediation System Design (Ground-water)
 - Ground-water remediation will only be required onsite.
 - The already completed design will be approved by the Alameda County Health Care Services Agency within one month of submittal.
 - No revisions will be required following agency review.
- (5) System Permitting (Ground-water)
 - Discharge permit will be issued in 60 days.
 - BAAQMD permit will be issued in 60 days.
 - Planning/Building department approval will be issued in 120 days.
 - No modifications to design required for permitting.
- (6) Equipment Procurement (Ground-water)
 - No equipment modification due to agency/permitting requirements.
 - Equipment available from manufacturers stock within six weeks.



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

3

JOB NUMBER
7909—RTL

REVIEWED BY

DATE 1/92

REVISED DATE 12/92

- System Construction and Startup (Ground-water) (7)
 - The recovery system construction and installation was completed in November 1992.
 - Startup of the system was performed on November 13, 1992.
- (8) System Operation and Maintenance (Ground-water)
 - Five year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after five years.
- (9) Performance Evaluation (Ground-water)
 - -Will show system is operating as designed and does not require modification.
- (10)Remediation System Design (Soil)
 - The tank replacement project was completed in June 1992.
 - Soil remediation was performed by overexcavation during the tank replacement project.
- (11)Verification Ground-water Monitoring
 - One year length.
 - Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.
- (12)Site Closure
 - Agency approval based on results of verification borings, monitoring and sampling.

CCI
GOI
JOB NUMBER

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

DATE 1/92 REVISED DATE 12/92

PLATE

93,55114 55 6: 60

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

Paralle Move

Attachments:

ARCO Facility QSRs

USI LE			C	urrent	
SITE UP			D	ate: <u>1/4/9</u>)3
OTOTE AD	***************************************	******	*****	*****	
Name:	ENTIFICATION ARGO Product of the state of th				
Address:	ARCO Products Company #4931	Case No.:		-	
Audiess;	Total Manual Boulevald				
	Street NumberOakland	Street			
	City	94611	7: 0 1		
	Alameda	Carlegan	Zip Code		
	County	Substance:	Gasoline		
Local Ag	gency: Alameda County Health Agency, Department	of Environmental C	Faalsh		
Regional	Board: San Francisco Bay Region	or caviformental f	<u>leatti</u>		
G	*************************************	******	****	***	
LEAD S	TAFF PERSON: Susan Hugo		to a control of the first of the deaders of the	~~~~~~~~~~ ~	
	********************************	******	······································	********	
CASE T					
<u></u>	Undetermined Soil Only	X Ground Water	r	Drinking Wa	ter
		*******	· ·*******	*****	ici
STATUS	(Date indicates when case moved into status)				
	No Action Taken		Date:		
X_	Leak Being Confirmed		Date:	Nov. 19	82.
	Preliminary Site Assessment Workplan Submitted		Date:		<u>~~</u>
X X X	Preliminary Site Assessment Underway		Date:	Dec. 198	32
<u> </u>	Pollution Characterization		Date:	June 198	
<u>X</u>	Remediation Plan		Date:	May 199	
<u>X</u>	Remedial Action Underway		Date:	Novembe	
	Post Remedial Action Monitoring		Date:		
	Case Referred to Regional Board		Date:		
	Case Referred to Dept. of Health Services		Date:		
	Case Closed		Date:		
	*****************	**********	******	*****	
MIL DOTO	NEG				
MILESTO	JNES:				
C 41					
Currently	there are eleven monitoring wells. These wells we	re installed betwee	n 1982 and 198	7. Quarterly	groundwate
monitoring	g and sampling began in 1989. A hybrid step-draw	down/constant rate	test was perform	ned in April	1991 and
Movember	Action Plan (RAP) was issued in May 1991. The un	nderground storage	tanks were remo	ved and replac	ed between
in June 1	, 1991 and April, 1992. One off-site, up-gradient me	onitoring well and	three on-site reco	overy wells we	ere installe
m June, 1	1992. Refer to the attached chronological listing of re	ports issued for th	is site.		
RECENT	ACTIVITIES/FINDINGS:	*******	***********	*****	
RECEIVI	ACTIVITIES/FINDINGS;				
Ouarterly	ground-water monitoring and compliant	-C- 1 C 11	0 4		
Monitoring	ground-water monitoring and sampling were per	rformed for the	fourth quarter,	1992. Issued	Quarterly
installation	g/Well Installation Report presenting third quarter,	1992 sampling res	sults and results	of the June,	1992 wel
mountail()	ns. Construction of the groundwater remedial system	was completed and	began operation	ın November,	1992.
	***************	****	le ale ale ale ale de de de de la colonie de de	alantari-d-de A	
ANTICIPA	ATED ACTIVITIES:	· ···································	******	*****	
	ACTIVITIES,				
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quarter. 19	ground-water monitoring and sampling will conting sampling results. Operation, maintenace, and sam	nuo assue Quarter	ly Monitoring	Keport present	ting fourth
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REPORT	<u>DATE</u>	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
Site Update	October 4, 1990	GeoStrategies Inc.
Site Update	January 28, 1991	GeoStrategies Inc.
Site Update	May 3, 1991	GeoStrategies Inc.
Remedial Action Plan	May 15, 1991	GeoStrategies Inc.
Aquifer Test Report	July 10, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	July 12, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	October 25, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	January 16, 1992	GeoStrategies Inc.
Addendum to Remedial Action Plan	January 27, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	March 31, 1992	GeoStrategies Inc.
Vapor Extraction Test Report	May 21, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	July 17, 1992	GeoStrategies Inc.
Underground Storage Tank Removal and Soil Sampling Report	July 20, 1992	ROUX Associates
Quarterly Monitoring/Well Installation Report	November 13, 1992	GeoStrategies Inc.





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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 Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94612 DATE: November 4, 1992 PROJECT NUMBER: SUBJECT: Minutes for Meeting

held on September 30, 1992.

FROM: Joel Coffman TITLE: Project Geologist

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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 Hiett, 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

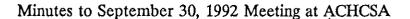
(ACHCSA) on September 30, 1992.

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 Hiett 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.





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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 biweekly 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.

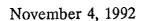
It was mentioned that the report documenting the underground storage tank removal and replacement had been issued by Roux Associates. ARCO mentioned that field work included in the recently completed subsurface investigation had been delayed until late June to early July, 1992, due to the delays related 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



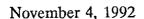
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explained ARCO would not be able to excavate very far due to limitations posed by structures and the offsite properties adjacent to the site. It was generally agreed that over-excavation may be the only feasible alternative for this site.

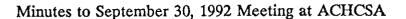
ARCO Station 276, 10600 MacArthur Blvd., Oakland, California.

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. 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.



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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 a 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



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

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

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

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

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

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



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

Ms. Hugo asked if ARCO had a contingency plan to address potential breakdown of the system. GeoStrageties 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 GeoStrageties Inc., will be notified as soon as there are system problems. Groundwater piping and the system enclosure slab have been designed for secondary containment.

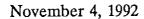
Ms. Hugo asked how long the system will be operating. Soil clean-up should be relatively short and the anticipated groundwater clean-up duration as outlined in the schedule for this site is for five years. After an initial start-up and operation period, a better estimate may be possible.

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

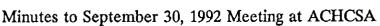
ARCO Station 2169, 899 W. Grand Ave., Oakland, California.

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

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



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

Mr. Vargas and Ms. Lundquist discussed the progress at his site. The Remedial System underground and enclosure has been completed. Equipment installation and start-up will be performed once all equipment is received from the manufacturers. GeoStrageties 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.

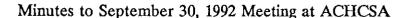
Following this discussion, the meeting adjourned for lunch at 12:15 p.m. After the lunch break, at approximately 1:15 p.m., the meeting resumed with Mr. Michael Whelan, Ms. Susan Hugo, and Mr. Joel Coffman present.

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





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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.

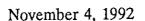
A work plan with proposed location of a groundwater recovery well, possible vapor extractions wells (if applicable), an aquifer test, and a vapor extraction test (if applicable) will be prepared and submitted to ACHCSA by March 1, 1993. The report documenting work in this work plan will be submitted 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.

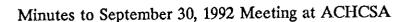
ARCO Station 6041, 7249 Village Pkwy, Dublin, California.

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.



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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 <u>may</u> 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 Hiett, RWQCB John Vargas, GeoStrategies



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

November 9, 1992

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

Attention:

Mr. Michael Whelan

Reference: Monthly Site Status Update

ARCO Service Station No. 4931 731 West MacArthur Boulevard Oakland, California 94611

Mr. Whelan:

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

Status of Previous Month's Activities:

- Procurement of remedial system equipment.
- Installation of remedial system equipment began.
- Issued draft Quarterly Monitoring/Well Installation Report to ARCO.
- Ground-water sampling and monitoring for the fourth quarter, 1992, was performed.

:ARCO/A909.WP(rt)



ARCO Products Company November 9, 1992 Page 2

Anticipated Work to be Performed in the Next Month:

- Issue Quarterly Monitoring/Well Installation Report to ARCO, ACHA and RWQCB.
- Startup of remedial system
- Issue draft Quarterly Monitoring Report to ARCO presenting the results of fourth quarter monitoring and sampling.

If you have any questions please call.

Sincerely,

John F. Vargas

Senior Geologist

JFV/rmt

Ms. Susan Hugo, Alameda County Health Agency, Department of cc:

Environmental Health (Certified Mail)

Mr. Richard Hiett, RWQCB - San Francisco Bay Region Mr. Mark Thomson, Alameda County District Attorney

October 12, 1992



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

Paralo CV. Mony

Attachments:

ARCO Facility QSRs

agenqsr.ltr 50013-004-06

UST LEA	.K Date of Last	Current
	DATE Review/Update: 7/10/92	Date: 10/1/92
****	*************	***********
SITE IDE	NTIFICATION	
Name:	ARCO Products Company #4931	Case No.:
Address:	731 West Macarthur Boulevard	
	Street Number Street	
	Oakland	94611
	City	Zip Code
	Alameda	Substance: Gasoline
	County	<u> </u>
Local Age	ency: Alameda County Health Agency,	Department of Environmental Health
Regional	Board: San Francisco Bay Region	······································
****	**********	**********
LEAD ST	AFF PERSON: Susan Hugo	
	************	***********
CASE TY		
Und	letermined Soil Only <u>X</u> Ground ************************************	Water Drinking Water
STATUS	(Date indicates when case moved into status	• _
	No Action Taken	Date:
_X	Leak Being Confirmed	Date: <u>Nov. 1982</u>
	Preliminary Site Assessment Workplan Su	
<u>X</u>	Preliminary Site Assessment Underway	
<u>X</u>	Pollution Characterization	Date: June 1986
X	Remediation Plan	Date: <u>May 1991</u>
	Remedial Action Underway	Date:
	Post Remedial Action Monitoring	
	Case Referred to Regional Board	Date:
	Case Referred to Dept. of Health Service	
	Casc Closcd	Date:

MILESTO	INES:	
a		
	there are eleven monitoring wells. Th	
and 1987	7. Quarterly groundwater monitoring an	d sampling began in 1989. A hybrid
	down/constant rate test was performed	
	(P) was issued in May 1991. The under	
-	•	, 1992. One off-site, up-gradient
	ng well and three on-site recovery well	
to the att	ached chronological listing of reports issued	for this site.

RECENT	ACTIVITIES/FINDINGS:	
	ground-water monitoring and sampling	
	ssued reports presenting second quarter,	
removal	. •	. Construction of the groundwater
	system is in progress.	ت تعديد بعد العداد بالعداد بالعداد بالعداد بالعداد بالعداد بالعداد العداد العدا
	**************	******************
ANTICIP	ATED ACTIVITIES:	
		4.1
Completion	on and start-up of the groundwater rem	edial system. Quarterly ground-water

monitoring and sampling will continue. Issue report documenting well installations

and third quarter, 1992 sampling results.

REPORT	<u>DATE</u>	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
Site Update	October 4, 1990	GeoStrategies Inc.
Site Update	January 28, 1991	GeoStrategies Inc.
Site Update	May 3, 1991	GeoStrategies Inc.
Remedial Action Plan	May 15, 1991	GeoStrategies Inc.
Aquifer Test Report	July 10, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	July 12, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	October 25, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	January 16, 1992	GeoStrategies Inc.
Addendum to Remedial Action Plan	January 27, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	March 31, 1992	GeoStrategies Inc.
Vapor Extraction Test Report	May 21, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	July 17, 1992	GeoStrategies Inc.
Underground Storage Tank Removal and Soil Sampling Report	July 20, 1992	ROUX Associates

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

731 Macarthur Blvd., Oakland

SAN FRANCISCO BAY REGION 2101 WEBSTER STREET, SUITE 500 OAKLAND, CA 94612 Phone: (510) 286-1255 Fax: (510) 286-1380



FAX TRANSMITTAL

Mr. Mark Thompson ACDA

Mr. Brian Oliva ACHD

RE:

File: 2198.17

October 1, 1992

zetenom = ARCO

Dear Mark and Brian,

This complaint was received by our office a few days ago. I believe that Mrs. Patricia Gohleston is referring to the ARCO station at 731 Mac Arthur Blvd. We have this site listed as a "free product "site. Please call if you have any questions.

Citizen Complaint regarding UST investigation at ARCO station,

Rich Hiett

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and relayed

0/1/97



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

September 28, 1992

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

Attention:

Mr. Michael Whelan

Reference:

Monthly Site Status Update

ARCO Service Station No. 4931 731 West MacArthur Boulevard

Oakland, California 94611

Mr. Whelan:

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

Status of Previous Month's Activities:

- * Construction of the equipment enclosure for the groundwater remedial system was completed.
- * Pursue procurement of remedial system equipment.

Anticipated Work to be Performed in the Next Month:

- Issue draft Quarterly Monitoring/Well Installation Report to ARCO.
- * Install treatment system equipment upon receipt of equipment.

19:0 HB 30 dB 26

ARCO Products Company September 28, 1992 Page 2

If you have any questions please call.

Sincerely,

John F. Vargas Senior Geologist

JFV/rmt

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

Mr. Richard Hiett, RWQCB - San Francisco Bay Region Mr. Mark Thomson, Alameda County District Attorney State of California

From

Memorandum

To : Lester Feldman, UST Manager

San Francisco Bay Regional Water Quality

Control Board

Date : SEP 2 4 1992

CALIF. REG. WATER

SEP 2 8 1992

QLTY. CONTROL BOARD

Mike McDonald, Manager

Underground Storage Tank Program: STATE WATER RESOURCES CONTROL BOARD

2014 T Street, Sacramento, CA 95814

Mail Code: G-8

Subject: CITIZEN CONCERN REGARDING POTENTIAL TANK REGULATION VIOLATION --

INVESTIGATIVE LOG NUMBER 92-6

We have received the attached citizen concern from Environmental Protection Agency (EPA) Region 9. Since the document addresses a potential problem in your region, your assistance is requested in investigating this matter.

EPA has asked that a report on this concern be supplied to them to inform them of the status and results of your investigations into these incidents. If you would send us a copy of your finding by October 15, 1992, we will forward your findings along with reports on similar concerns being reviewed by other Regional Boards to EPA.

If the concerns are not completely resolved by the above requested reporting date, please supply a quarterly update and we will keep EPA informed as to the progress of the resolution. Quarterly reports should be submitted by the 15th of the month following the close of each quarter.

If you have any questions regarding this issue, please call me at (916) 739-4352 or CALNET 8-497-4352.

Attachments

cc Heidi Hall
Environmental Protection Agency,
Region 9
75 Hawthorne Street
Mail Code H-2-1
San Francisco, CA 94105





92 SEP 25 MILO: 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 Hiett 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 Hiett, RWQCB John Vargas, GeoStrategies

September 21, 1992

Proposed Agenda for September 30, 1992 ACHCSA Meeting

	ARCO Station	ACHCSA Staff	RWOCB Staff	Cnsltnt
	# 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	# 601, 712 Lewelling Bd., San Leandro	Scott Seery	John Jang	RESNA



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

August 13, 1992

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

Attention:

Mr. Michael Whelan

Reference:

Monthly Site Status Update

ARCO Service Station No. 4931 731 West MacArthur Boulevard Oakland, California 94611

Mr. Whelan:

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

Status of Previous Month's Activities:

- * ROUX Associates issued an Underground Storage Tank Removal and Soil Sampling Report dated July 20, 1992 documenting recent tank replacement activities.
- * Issued Quarterly Monitoring Report, dated July 31, 1992, presenting second quarter, 1992 sampling results to ARCO, ACHA, and RWQCB.
- * Construction of underground piping and equipment enclosure for the groundwater remedial system was completed.

Anticipated Work to be Performed in the Next Month:

- * Issue draft Quarterly Monitoring/Well Installation Report to ARCO.
- * Install treatment system equipment upon receipt of equipment.

ARCO Products Company August 13, 1992 Page 2

If you have any questions please call.

Sincerely,

Ver C. Millong Fon John F. Vargas Senior Geologist

JFV/shl

Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (Certified Mail)
Mr. Lester Feldman, RWQCB - San Francisco Bay Region



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545 92 JUL 14 13712: 35

(510) 352-4800

July 9, 1992

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

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update

ARCO Service Station No. 4931 731 West MacArthur Boulevard Oakland, California 94611

Mr. Whelan:

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

Status of Previous Month's Activities:

- * Tank removal and replacement project has been completed.
- * Installed three on-site ground-water recovery wells (AR-1 through AR-3) and one off-site, up-gradient monitoring well (A-13).
- * Issued draft Quarterly Monitoring Report presenting second quarter, 1992 sampling results to ARCO.
- * Began construction of groundwater remedial system trenching.

Anticipated Work to be Performed in the Next Month:

- * Issue draft Quarterly Monitoring/Well Installation Report to ARCO.
- * Continue construction of groundwater remedial system.

ARCO Products Company July 9, 1992 Page 2

If you have any questions please call.

Sincerely,

John F. Vargas Senior Geologist

JFV:rcm

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

**************	**********
UST LEAK Date of Last	Current
SITE UPDATE Review/Update: 4/10/92	Date: <u>7/10/92</u>

SITE IDENTIFICATION	
Name: ARCO Products Company #4931	Case No.:
Address: 731 West Macarthur Boulevard	
Street Number Street	
<u>Oakland</u>	94611 Zip Code
City	Substance: <u>Gasoline</u>
Alameda County	Substance. <u>Gasonne</u>
Local Agency: Department of Environmental Ho	ealth .
Local Agency: Department of Environmental Horizonal Board: San Francisco Bay Region	
************	*********
LEAD STAFF PERSON: Susan Hugo	
**************************************	**********
CASE TYPE:	
Undetermined Soil Only _X Ground	d Water Drinking Water
STATUS (Date indicates when case moved into statu	
No Action Taken	Date:
X Leak Being Confirmed	Date: <u>Nov. 1982</u>
Preliminary Site Assessment Workplan S	ubmitted Date:
X Preliminary Site Assessment Underway X Pollution Characterization X Remediation Plan	Date: <u>Dec. 1982</u>
X Pollution Characterization	Date: June 1986
X Remediation Plan	Date: <u>May 1991</u>
Remedial Action Underway	Date:
Post Remedial Action Monitoring	Date:
Case Referred to Regional Board	Date:
Case Referred to Dept. of Health Service	
Case Closed	Date:
*************	**********
MILESTONES:	
Currently there are eleven monitoring wells. T	hese wells were installed between 1982
and 1987. Quarterly groundwater monitoring a	nd sampling began in 1989. A hybrid
step-draw down/constant rate test was performed	l in April 1991 and a Remedial Action
Plan (RAP) was issued in May 1991. Pleas	se refer to the attached chronological
listing of reports issued for this site	
**************************************	**********
RECENT ACTIVITIES/FINDINGS:	
RECEIVE METTYTTES/ MINDINGS.	
Underground storage tank replacement proje	et has been completed. Quarterly
ground-water monitoring and sampling were po	erformed for the second quarter, 1992.
One up-gradient, off-site groundwater monitoris	ng well and three on-site groundwater
One up-gradient, off-site groundwater monitoring	angueta maganting first quarter 1002
extraction wells were installed. Issued re	corts presenting that quarter, 1992
sampling and vapor extraction test results.	Construction of the groundwater
remedial system has begun.	
**********	**********
ANTICIPATED ACTIVITIES:	
out the second water and	nedial system Quarterly ground-water
Completion and start-up of the groundwater ren	report documenting well installations
monitoring and sampling will continue. Issue	tehort accumenting went instanations
and second quarter, 1992 sampling results.	**********

REPORT	DATE	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
Site Update	October 4, 1990	GeoStrategies Inc.
Site Update	January 28, 1991	GeoStrategies Inc.
Site Update	May 3, 1991	GeoStrategies Inc.
Remedial Action Plan	May 15, 1991	GeoStrategies Inc.
Aquifer Test Report	July 10, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	July 12, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	October 25, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	January 16, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	March 31, 1992	GeoStrategies Inc.
Vapor Extraction Test Report	May 21, 1992	GeoStrategies Inc.

ARCO Products Company

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



92 JUL -6 M 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:

ARCO Station	Address & City
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?

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

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 Builders 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

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. Hiett 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

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.

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 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.

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 rappor 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

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.

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.

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

Sincerely,

Michael R. Whelan

Environmental Engineer

cc: Lester Feldman, RWQCB

Michael R Whelen

Susan Hugo, ACHCSA Chris Winsor, ARCO

John Meck, ARCO

John Vargas, GeoStratagies

Joel Coffman, RESNA Industries



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

June 12, 1992

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

Attention:

Mr. Michael Whelan

Reference:

Monthly Site Status Update

ARCO Service Station No. 4931 731 West MacArthur Boulevard Oakland, California 94611

Mr. Whelan:

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

Status of Previous Month's Activities:

- * Continuing tank replacement project.
- * Received encroachment permits from the City of Oakland for the proposed up-gradient monitoring well on MacArthur Boulevard.
- * Ground-water sampling and monitoring was performed for the second quarter, 1992.
- * Issued Vapor Extraction Test Report to ARCO, ACHA, and RWQCB.
- * Notified Bay Area Air Quality Management District of pending demolition of on-site restroom building.

Anticipated Work to be Performed in the Next Month:

- Completion of tank replacement project.
- * Installation of three on-site ground-water recovery wells and one off-site, up-gradient monitoring well.

ARCO Products Company June 12, 1992 Page 2

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

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas Senior Geologist

JFV:rcm

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

Mr. Eddy So, RWQCB - San Francisco Bay Region

6/11/92

1260 Park It. alameda

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

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ARCO S	Station Addr	ress & City VOC problems 2 up gradient wills
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374	6407	Telegraph Ave., Oakland July 1992 (late) System in place
414	3000	Shattuck Ave., Berkeley
2035	1001	I San Pablo Ave., Albany
2107	3310	Park Blvd., Oakland
2152		41 Center St., Castro Valley
2169	899	W. Grand Ave., Oakland - John Vergae Stone Lindquist
2185		0 E. 14th St., Oakland
4494	566	Hegenberger Rd., Oakland
4931	, 131.	W. MucArthur, Cakland (**)
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(6/11/92) LIST OF ARCO SITES WITH UGT CLEANUP

STID#	ACHD CONTACT	ARCO FACILIT	Y# ADD	ADDRESS	
3629	Susan Hugo	Station 2112	126	Park Street Alameda 94501	
817	Juliet Shin	Station 5387	202	00 Hesperian Blvd. Hayward 94541	
3943	Scott Seery	Station 2152	221	11 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	724	Village Parkway Dublin 94568	
779	Juliet Shin	Station 608	176	01 Hesperian Blvd. San Lorenzo 94580	
3876	Barney Chan	Station 2185	980	D East 14th Street Oakland 94603	
3756	Barney Chan	Station 276	1060	00 MacArthur Blvd. Oakland 94605	
3874	Susan Hugo	Station 4931	731	W. MacArthur Blvd. Oakland 94609	
3884	Susan Hugo	Station 374	640	7 Telegraph Avenue Oakland 94609	
3626	Susan Hugo	Station 6148	513:	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	100	l San Pablo Avenue Albany 94706	
0000	Scott Seery	Station 601	712	Lewelling Blvd. San Leandro 94579	

HAZARDOUS MATERIALS

Site Brief for the City of Alameda

as of 04/23/92

ALAMEDA COUNTY

pg 1 UTID/ Site Address **#Tanks PERMITS:** Status Name of Site **-----**4 I:12/27/91 F:01/23/92 Alameda , CA 94501 18 3858 C Arco AM/PM Minimarket #0 1001 San Pablo Ave. 4 I:-0-3858 C Arco Ary Fr Allians Albany , CA 94706
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2770 Castro Valley Blvd. 3 I:09/06/88
Castro Valley , CA 94546 F:-03 I:09/06/88 T61043 T61043 761043 Castro valley, CA 94546 78 3943 C Arco Station #02152 22141 Center St. 3 I:09/06/88 Castro Valley , CA 94546 F:-0-3 I:09/06/88 1053 C Arco Station #06041 7249 Village Pkwy. T61043 F:-0-4 I:09/06/88 F:-0-Dublin , CA 94568 817 C Arco Station #05387 Ff 20200 Hesperian Blvd.
T61043 Hayward , CA 94541 T61043 3 I:-0-2112 C Springtown Arco 909 Bluebell Dr. 286 S. Livermore Ave.
Livermore, CA 94550 F:-0-3941 C Arco Facility #00498 3 %:09/06/88 F:-0-3873 C Arco Station #00771 FP ✓ 899 Rincon Ave. 4 I:09/06/88 F:-0-3 I:09/06/88 F:-0-0 I:-0-Livermore , CA 94550 785 E. Stanley Blvd. Livermore , CA 94550 Livermore , CA 94550 6# -0- C Arco Station #06113 785 E. Stanley Blvd. T61043 198 R Wong's Arco 2032 E. - 12th St. F:-0-Oakland , CA 94606 T61026 3876 C Arco Station #02185 9800 E. - 14th St. 4 I:09/06/88 Oakland , CA 94603 2740 - 98th Ave F:-0-T61043 2740 - 98th Ave. 4 I:10/13/87 1130 C Freeway Arco Oakland , CA 94605 and, F:-0-DB 3793 C Arco Station #02169 (St) 889 W. Grand Ave. 4 I:-0-T61043

Oakland , CA 94607

706 Harrison St.

Oakland , CA 94612

Oakland , CA 94612

Carco Station #04494

Oakland , CA 94612

Oakland , CA 94621

Oakland , CA 94621 F:-0-0 I:-0-F:-0-3 I:02/05/88 F:01/30/91 5 I:02/05/88 2951 High St. 027?
Oakland , CA 94619 1038 C Zema Ctr. Inc. Arco F:-0-T21043 3874 C Arco Station #04931 % 731 W. MacArthur Blvd. 4 I:-0-Oakland , CA 94609 F:-0-T61043 Ff 10600 MacArthur Blvd. 4 I:-0-3756 C Arco Station #00276 F:-0-Oakland , CA 94605 T61043 4 I:04/14/88 851 C Mountain Blvd. Arco #796 2844 Mountain Blvd. Oakland , CA 94602 F:-0-T41043 05 -0- C Arco Station #02107 3 I:09/06/88 3310 Park Blvd. F:-04 1:09/06/88
F:07/30/91
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F:-03 1:-0-Oakland , CA 94610 T61043 3942 C Arco Station #06002 6235 Seminary Ave. Oakland , CA 94605 T61043 5131 Shattuck Ave. SH 3626 C Arco Station #06148 Oakland , CA 94609 T61043 5H -0- C Arco Station #00374 FP V6407 Telegraph Ave. ___Oakland , CA 94609 T61043 15101 Freedom Ave. 6. 3 I:-0-F freedom arco mini mart San Leandro , CA 94578 F:-0-1 1:08/16/88 1794 C Tharco F:-0-San Lorenzo , CA 94580 779 C Arco Station #00608 FP √17601 Hesperian Blvd. 4 I:09/06/88
San Lorenzo , CA 94580 F:12/31/91 PE T61043 #779 FB PAGENT BNA! PEN REMEDIATION:

May 21, 1992

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

Attention:

Mr. Michael Whelan

Reference:

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

Dear Mr. Whelan:

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

Status of Previous Month's Activities:

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

Anticipated Work to be Performed in the Next Month:

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

ARCO Products Company May 21, 1992 Page 2

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

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas FOR

Senior Geologist

JFV:rcm

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

Mr. Eddy So, RWQCB - San Fancisco Bay Region

A. Lee Gohleston 92 MAY - 6 AMM: 15 Oakland, California 94608

April 19, 1992

Dear Sirs/Madams:

My name is Mrs. A. Lee Gohleston and I own and live in the property located at 3710 West Street, Oakland, California 94608.

I am writing this letter to inform the Atlantic Richfield Corporation of Los Angeles, California and the respective Federal EPA, State Health Agencies, County and Local Jurisdictions regarding health and property hazards my family and I are experiencing due to our proximity to an ARCO Gasoline Station.

This leased gas station is located next door to my home, with a wooden 6 foot high fence separating the property. The manager of the gas station stated that he leases this facility from Atlantic Richfield Corporation.

We have been living at this residence since 1987. Since that time we encountered problems such as:

Excessive fumes flowing across our property. We been having problems breathing for hours at a time. I feel my headaches which occur almost daily and my stomach aches are due to these fumes. When I visited relatives in Las Vegas for 2 1/2 months my symptoms went away, yet the symptoms returned when I arrived back home.

I think gasoline is leaking from the old tanks through the ground to our backyard. My side yard and backyard garden and plants have been dying over the last three years. Trees that are ten years old and bore fruit every year are no longer with buds for this spring. Over the last two years, on many occasions, I purchased flowers and vegetables and planted them in the ground and they died immediately. My grass is also all died out. It used to be full and green.

The fence that separate our property was erected by the previous owner of my property. The fence is part of my property, yet the gasoline station management doesn't stop the constant vandalism to the fence. I think they should replace my fence.

The gasoline station has been closed for over 3 months. I have noticed since that time they have replaced the old tanks with new tanks.

They are constantly digging up the ground and replacing it with new dirt and rocks. They are constantly testing the soil content. One of the workers mentioned that the reason they replaced the tanks was because of leakage from the old tanks.

I am asking for assistance to determine if there is leakage to my property. If the soil and environment testing is positive, then I will need help alleviate this problem.

My family and I appreciate your interest and concern and look forward to your response.

Sincerely,

Mrs. Patricia Gohleston

A. Lee Gohleston 3710 West Street Oakland, California 94608



April 19, 1992

Dear Sirs/Madams:

My name is Mrs. A. Lee Gohleston and I own and live in the property located at 3710 West Street, Oakland, California 94608.

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I am asking for assistance to determine if there is leakage to my property. If the soil and environment testing is positive, then I will need help alleviate this problem.

My family and I appreciate your interest and concern and look forward to your response.

Sincerely,

Mrs. Patricia Gohleston

HEALTH CARE SERVICES

AGENCY DAVID J. KEARS, Agency Director



State Water Resources Control Board Division of Clean Water Programs UST Local Oversight Program

RAFAT A. SHAHID, Assistant Agency Director

Certified Mail #

P 367 604 497

04/09/92 STID# 3874 DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Division 80 Swan Way, Rm. 200 Oakland, CA 94621 (510) 271-4320

Notice of Requirement to Reimburse

Chuck Carmel Arco Products Co 2000 Alameda Delas Pulgas San Mateo, C A 94403

Responsible Party Property Owner

Arco Station #04931 731 W. Macarthur Blvd. Oakland , CA 94609

SITE

Date First Reported 11/24/82

Substance: Gasoline Petroleum: (X) Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been indentified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cheanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

Please contact Susan HUGO, Hazardous Materials Specialist at this office if you have any questions concerning this matter.

Edgar B. Howell, III, Chief Contract Project Director

cc: Sandra Malos, SWRCB

SWRCB Use:

Add: X Reason: New Case

eu

a. Lee Gobleston 3710 West St. Datsland, CA 9460 Pro Ala 122 Oats



Supple Side

Property Hazards
Alameda County The Accessor
1221 Oak Street
Oakland, CA 94612

Eva FROM: SUBJ: Transfer of Elligible Oversight Case Site name: ARCO Address: 731W. Mac Arthor Bl. city Oak zip 94609 Closure plan attached? Y N DepRef remaining \$ DepRef Project #_____ STID #(if any)____3874 Number of Tanks: removed? Y N Date of removal Leak Report filed? (Y) N Date of Discovery Nov 1982 Samples received? Y N Contamination: Petroleum (y) Types: Avgas Jet leaded unleade fuel oil waste oil kerosene Monitoring wells on site 12 Monitoring schedule? (Y) (3) * H S C A R (W) LUFT category 1 Briefly describe the following: Preliminary Assessment Rocaria 12/82 Remedial Action

Floring products in muls

Enforcement Action

Post Remedial Action Monitoring

4/8/92

Local Oversight Program

DATE:

TO

SAMPLING METHODOLOGY

Soil was removed from the pit in a backhoe bucket. After removing the first 3 to 4 inches of soil, presumably slough, samples were contained by driving clean brass tubes (1.92" x 6") into the exposed layer just above the teeth of the bucket. Soil was packed into the tubes to exclude the existence of headspace. Thus prepared, the ends of the tubes were wrapped with aluminum foil and sealed with plastic caps. After removing excess foil, electrical tape was applied to the seems between cap and tube in an effort to reduce evaporative loss of volatile constituents.

Soil samples taken from a hand auger were promptly packed into clean brass tubes (1.92" x 6"). The exposed ends of the tubes are covered with aluminum foil beneath snug fitting plastic caps. The seams between cap and tube were covered with a non-contributing plastic tape in an effort to reduce evaporative loss of volatile compounds.

The samples were documented on an appropriate chain of custody, placed on ice and transported to Mobile Chem Labs Inc., a certified hazardous waste analytical laboratory for analyses.

Called For more (Searco)
recimed QK 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

Parderer. Mong

Attachments:

ARCO Facility QSRs

A:\arcoqsrs\consmrg.itr 50013-004-06

UST LEAK Date of Last SITE UPDATE Review/Update: 1/10/92	Current Date: <u>4/10/92</u>
***********	************
SITE IDENTIFICATION	
Name: ARCO Products Company #4931	Case No.:
Address: 731 West Macarthur Boulevard	
Street Number Street	t
<u>Oakland</u>	94611
City	Zip Code
Alameda	Substance: <u>Gasoline</u>
County	
Local Agency: Department of Environmental H	ealth
Regional Board: San Francisco Bay Region	
LEAD STAFF PERSON: Susan Hugo	
***************	***********
CASE TYPE:	
Undetermined Soil Only X Ground	d Water Drinking Water

STATUS (Date indicates when case moved into statu	es)
No Action Taken	Date:
X Leak Being Confirmed	Date: Nov. 1982
Preliminary Site Assessment Workplan S	ubmitted Date:
X Preliminary Site Assessment Underway	Date: <u>Dec. 1982</u>
X Pollution Characterization	Date: June 1986
X Remediation Plan	Date: <u>May 1991</u>
Remedial Action Underway	Date:
Post Remedial Action Monitoring	Date:
Case Referred to Regional Board	Date:
Case Referred to Dept. of Health Service	
Case Closed	Date:
**************************************	***********
Currently there are sleven monitoring wells. The	
Currently there are eleven monitoring wells. The	lese wells were installed between 1982
and 1987. Quarterly groundwater monitoring an	id sampling began in 1989. A hybrid
step-draw down/constant rate test was performed Plan (RAP) was issued in May 1991.	in April 1991 and a Remedial Action
Trail (RAT) was issued in May 1991.	
************	*********
RECENT ACTIVITIES/FINDINGS:	
Currently a table mentagement of the terminal	
Currently a tank replacement project is underwa	ly. Quarterly ground-water monitoring
and sampling were performed for the first quarter, 1	992.
************	**********
ANTICIPATED ACTIVITIES:	
Times assumed as a Contract to the state of	
Upon completion of the tank relacement project	a groundwater remedial system is to
be installed. One up-gradient groundwater me	onitoring well and three groundwater
extraction wells will be installed. Quarterly g will continue.	ground-water monitoring and samlping

REPORT	DATE	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
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Site Update	May 3, 1991	GeoStrategies Inc.
Remedial Action Plan	May 15, 1991	GeoStrategies Inc.
Aquifer Test Report	July 10, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	July 12, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	October 25, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	January 16, 1992	GeoStrategies Inc.



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545 92 APR -7 FILL: 05

(510) 352-4800

March 31, 1992

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

Attention:

Mr. Michael Whelan

Reference:

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

Dear Mr. Whelan:

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

Status of Previous Month's Activities:

- Continuing tank replacement project.
- * Issued draft Vapor Extraction Test Report to ARCO.

Anticipated Work to be Performed in the Next Month:

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

Please call if you have any questions concerning this letter.

Sincerely,

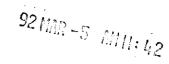
John F. Vargas/

JFV:rcm

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



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545



(510) 352-4800

February 28, 1992

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update ARCO Service Station 4931

731 West MacArthur

Oakland, California, 94611

Dear Mr. Carmel:

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

Status of Previous Month's Activities:

Continuing tank replacement project.

Anticipated Work to be Performed in the Next Month:

* Issue test results report for vapor extratction test conducted by GSI on January 20, 1992.

Please call if you have any questions concerning this letter.

Sincerely,

ohn F Varga

JFV:rcm

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

Mr. Eddy So, RWQCB, San Fancisco Bay Region

(510) 352-4800

January 30, 1992

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update

ARCO Service Station 4931

731 West MacArthur

Oakland, California, 94611

Dear Mr. Carmel:

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

Status of Previous Month's Activities:

Continuing tank replacement project.

January 16: Issued final 4th quarter QMR.

January 17: Meeting with RWQCB and Alameda County.

January 29: Issued addendum to Remedial Action Plan first issued in May 1991.

Anticipated Work to be Performed in the Next Month:

* Secure permits for ground-water and recovery wells.

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas

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



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

January 27, 1992

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

Attn: Mr. C

Mr. Charles Carmel

Re:

ADDENDUM TO REMEDIAL ACTION PLAN

ARCO Service Station No. 4931

731 West MacArthur Oakland, California

Gentlemen:

This document outlines proposed changes to the recovery well configuration currently described in the GeoStrategies Inc. (GSI) Remedial Action Plan (RAP) dated May 15, 1991. The modifications described herein are at the request of ARCO Products Company.

CURRENT RECOVERY WELL PROPOSAL

As stated in the above referenced RAP, Recovery Well A-9 is proposed to be utilized as the ground-water extraction well. Refer to Plate 2 for the location of Recovery Well A-9.

PROPOSED MODIFICATION TO RECOVERY WELL CONFIGURATION

The following are proposed changes to the ground-water extraction configuration:

- o Three additional 6-inch-diameter ground-water extraction wells are proposed to enhance hydraulic control of the hydrocarbon plume.
- Two of the proposed ground-water extraction wells are to be placed with in the limits of excavation of the former and proposed underground storage tank (UST) complexes. One proposed groundwater extraction well will be located adjacent to well A-4.

ARCO Products Company January 27, 1992 Page 2

Refer to Plate 2 for the approximate locations of the proposed recovery wells.

NO. 5046

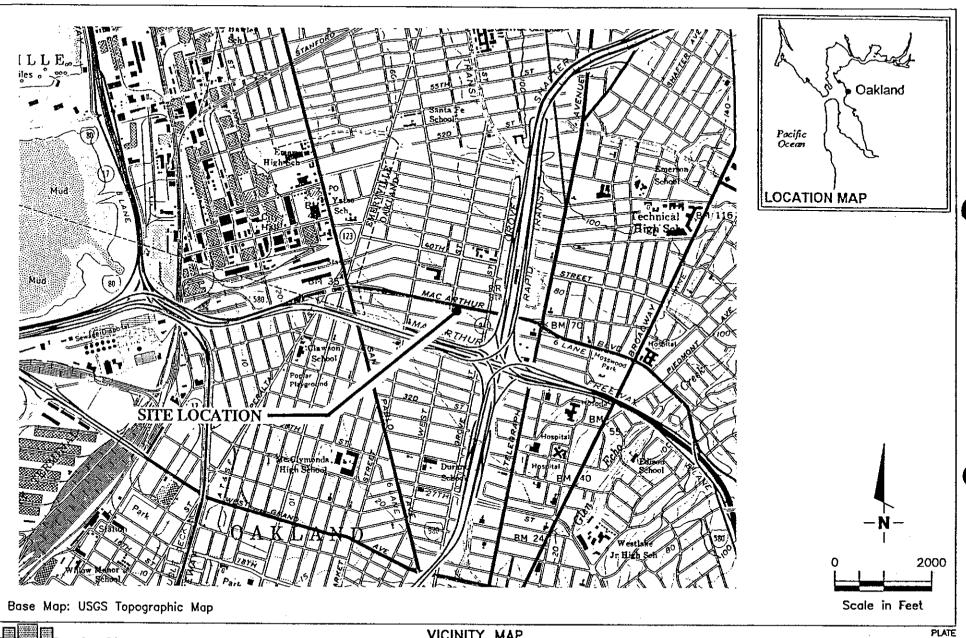
If you have any questions, please call.

GeoStrategies Inc. by,

Cliff M. Garratt Hydrogeologist

John F. Vargas Senior Geologist R.G. 5046

CMG/JFV/mlg

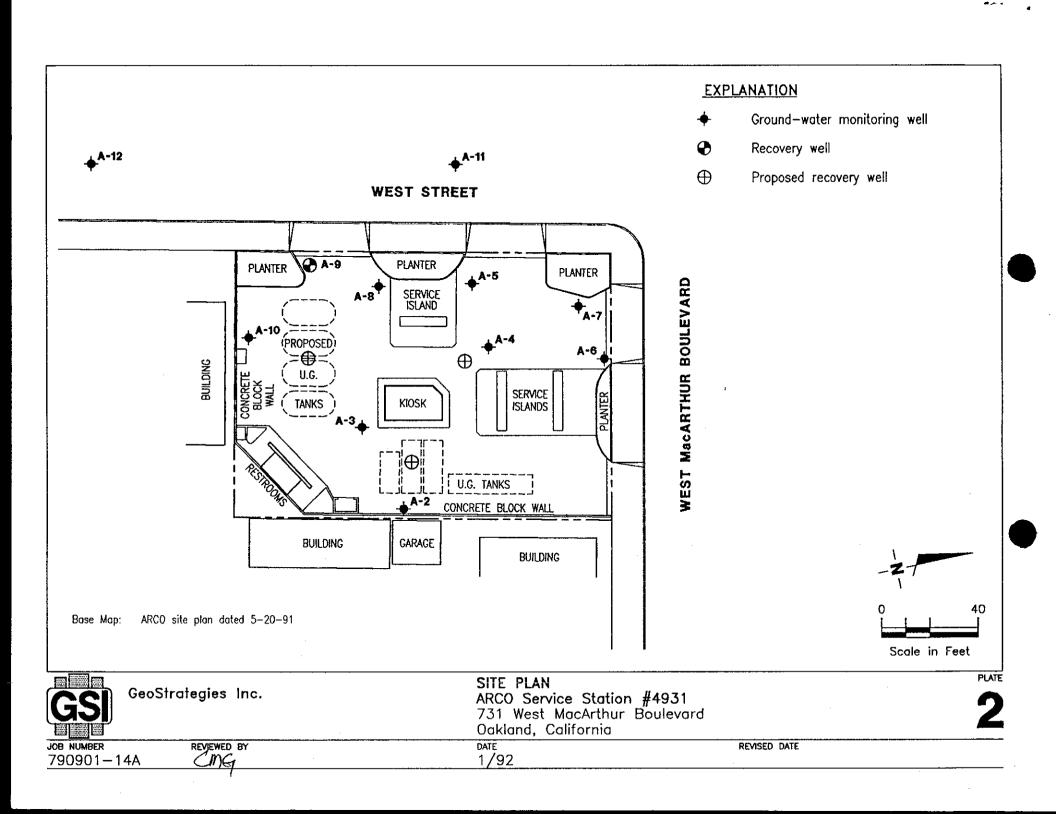


VICINITY MAP ARCO Service Station #4931 731 West MacArthur Boulevard Oakland, California

JOB NUMBER 7909

REVIEWED BY

DATE 9/91 REVISED DATE





2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

92 JM125 MIII: 03

(510) 352-4800

January 23, 1992

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

Attn:

Mr. Charles Carmel

Re:

ARCO Service Station No. 4931 731 W. MacArthur Boulevard

Oakland, California

Gentlemen:

This letter summarizes the topics discussed at the meeting which occurred on January 17, 1992, concerning the above referenced site. The meeting was held among the State of California, Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), ARCO Products Company, Alameda County Health Agency, GeoStrategies Inc. and ROUX Associates. The attendees were:

Susan L. Hugo
Eddie P. So
Charles Carmel
Kyle Christie
John F. Vargas
Paul V. Supple

Alameda County Health Agency (ACHA)
RWQCB
ARCO Products Company (ARCO)
ARCO Products Company (ARCO)
GeoStrategies Inc. (GSI)
ROUX Associates (ROUX)

SITE CONDITIONS

The site conditions were briefly discussed and can be summarized. Floating product was present on July 10, 1991 in Well A-8 at a thickness of 0.01 feet. Petroleum hydrocarbons have not been detected in the downgradient Well A-12. Dissolved hydrocarbon concentrations identified in Well A-9, located at the downgradient edge of the property, has decreased over time.

ARCO Products Company January 23, 1992 Page 2

A Remedial Action Plan (RAP) was prepared by GeoStrategies Inc. (GSI) and submitted to ACHA in May 1991. The RAP recommended groundwater extraction and treatment as a remedial option. Susan Hugo approved the RAP provided that an additional groundwater extraction well-be installed adjacent to Well-A-4. In addition, Susan Hugo requested that additional groundwater definition be performed to the north endownst of the site. A groundwater recovery system has been designed by GSI.

CURRENT CONDITIONS

Currently, a tank replacement and site reconstruction project is underway. The previous Underground Storage Tanks (USTs) have been removed. The UST excavation has been overexcavated to a maximum depth of 15 feet. The RWQCB and ACHA agreed that the soil samples from the UST complex base have defined the vertical extend of hydrocarbon contamination. The excavation has been overexcavated to the maximum extent which can be achieved using an excavator without undermining the site structures. Eddy So said that his intent is not to have ARCO compromise onsite or offsite structures.

Sidewall samples from the UST excavation indicate that TPH-Gasoline levels above. These locations include southwest of the excavation and along the west and north ends of the excavation. Oil and Grease were also identified in some soil samples. The RWQCB has requested ARCO to analyze ground water samples for total oil and grease and lead.

PLANNED ACTIVITIES

noturale accurate

ARCO wants to backfill the UST excavation because additional excavation is not feasible. The RWQCB and ACHA asked ARCO to perform further excavation in the contaminated areas along the west and north sidewalls. ARCO agreed in principle to try to perform further excavation in these areas by using temporary shoring, on other method, if possible. The contractor is being consulted on this final tank pit excavation activity. The RWQCB and ACHA are satisfied with this approach. In addition the RWQCB requested that further soils definition (i.e. soil borings) be performed if the new soil samples are not below satisfactory levels. The planned oppractions well could be used to define the extent of contamination present along the activation of the satisfactory levels.

ARCO Products Company January 23, 1992 Page 3

The RWQCB is concerned that the tank replacement project will slow down the temediation activities. ARCO said that groundwater remediation system construction will be performed concurrent with the tank replacement project. ARCO estimates that the remedial system could be ready for operation within 8 However, discharge or other permits may delay the project. ARCO, the RWQCB and ACHA agreed to work together to expedite the permit process.

The new UST complex will be excavated after backfilling the old UST excavation. Backfilling the old UST complex is necessary to proceed with the tank replacement project due to the limited space on site. That accurate

During the tank replacement project the sanitary sewer and waste line backfill located adjacent to the old UST complex will be excavated.

ARCO plans on installing two additional ground-water recovery wells, one within each tank backfill. These areas will act as sumps for recovery of dissolved and free-phase product, if present. The well within the new tank complex will be installed through conductor casing which will be installed during the tank replacement project. ACHA requested that an addendum to the RAP be submitted which outlines the changes to the initial remediation plan. Any necessary adjustments to the Remediation Time Line should be included.

ARCO communicated that a vapor extraction test will be performed on Monday, January 20. Lest resums will be forthcoming. ARCO also indicated that bioremediation may be considered as remedial option at some future date. The RWQCB agreed that bioremediation can be an acceptable remediation method provided that all local agency concerns are addressed. The RWQCB also expects long delays in getting approval to use bioremediation.

ARCO Products Company January 23, 1992 Page 4

If you have any questions or comments, please call.

Sincerely,

John F. Vargas

Project Manager

JFV/mlg

cc: Susan L. Hugo, ACHA Eddy P. So, RWQCB Paul V. Supple, ROUX Chris Winsor, ARCO

92 JAN 15 PH 2: 17

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

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

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

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

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

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

Sincerely yours,

Kyle A. Christie

Environmental Engineer

Attachments:

ARCO Facility QSRs

A:\arcoqsrs\consmrg.ltr 50013-004-06

UST LEAK Date of Last SITE UPDATE Review/Update: 8/26/91	Current Date: <u>1/10/92</u>
SITE IDENTIFICATION Name: ARCO Products Company #4931 Address: 731 West Macarthur Boulevard	Case No.:
Street Number Street Oakland	94611
City Alameda County	Zip Code Substance: <u>Gasoline</u>
Local Agency: Department of Environmental Here Regional Board: San Francisco Bay Region ***********************************	
LEAD STAFF PERSON: Cliff Garratt	
CASE TYPE: Undetermined Soil Only _X Ground	Water Drinking Water
MILESTONES: Currently there are eleven monitoring wells. The	Date: Nov. 1982 bmitted Date: Date: Dec. 1982 Date: June 1986 Date: May 1991 Date: Date: Date: Date: Date: Date: Solution Date: Date: Solution Date: D
and 1987. Quarterly groundwater monitoring and step-draw down/constant rate test was performed Plan (RAP) was issued in May 1991.	l sampling began in 1989 A hybrid
RECENT ACTIVITIES/FINDINGS: Currently a tank replacement project is underway.	·····································
**************************************	************

Upon completion of the tank relacement project a groundwater remedial system is to be install. One up-gradient groundwater monitoring well and two groundwater extraction wells are to be installed. Quarterly groundwater monitoring/samlping will continue. A report summarizing the result of the well installations will be issued.

REPORT	DATE	CONSULITANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
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Remedial Action Plan	May 15, 1991	GeoStrategies Inc.
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Quarterly Monitoring Report	July 12, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	October 25, 1991	GeoStrategies Inc.

**************	******
UST LEAK Date of Last	Current
SITE UPDATE Review/Update: <u>8/26/91</u>	Date: 1/10/92

SITE IDENTIFICATION	
Name: ARCO Products Company #4931	_ Case No.:
Address: 731 West Macarthur Boulevard	
Street Number Stree	et
<u>Oakland</u>	94611
City	Zip Code
Alameda	Substance: <u>Gasoline</u>
County	··· ·
Local Agency: Department of Environmental F	<u>lealth</u>
Kegional Board: San Francisco Ray Pagion	
**************************************	************
LEAD STAFF PERSON: Cliff Garratt	
*****************	************
CASE TYPE:	
Undetermined Soil Only _X Groun	d Water Drinking Water
STATUS (Date indicates when seen	·
STATUS (Date indicates when case moved into state No Action Taken	
	Date:
	Date: Nov. 1982
Preliminary Site Assessment Workplan S Preliminary Site Assessment Underway	Submitted Date:
	Date: June 1986
	Date: <u>May 1991</u>
Remedial Action Underway	Date:
Post Remedial Action Monitoring	Date:
Case Referred to Regional Board	Date:
Case Referred to Dept. of Health Servic	es Date:
Case Closed	Date:
######################################	*************
MILESTONES:	
Currently there are eleven monitoring wells. The	hese wells were installed between 1982
and 170%. Qualifily groundwater monitoring at	nd sampling become in 1000 and the
replace down/constant rate test was performed	in April 1991 and a Remedial Action
TAU UNAT I WAS ISSUED IN MIN TO 1991	
***************	**********
RECENT ACTIVITIES/FINDINGS:	
Currently a tank replacement project is underway.	

ANTICIPATED ACTIVITIES:

Upon completion of the tank relacement project a groundwater remedial system is to be install. One up-gradient groundwater monitoring well and two groundwater extraction wells are to be installed. Quarterly groundwater monitoring/samlping will continue. A report summarizing the result of the well installations will be issued.

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Quarterly Monitoring Report	October 25, 1991	GeoStrategies Inc.

ENVIRONMENTAL CONSULTING AND MANAGEMENT

ROUX ASSOCIATES

FAX TRANSMITTAL

1350 ARNOLD DRIVE SUITE 201 MARTINEZ, CALIFORNIA 94563

Date: 12-9-91

TO: MS SUSAN HUGO

Company: Alameda County Health Agency

FAX No: 510 568 3706

From:

Paul Suzple

Project No.:

A134W81
Roux Associates, Inc.

Fax No.:

510-370-2235

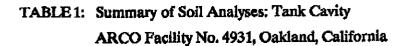
Phone No:

e No: 510-370-2275

Number of name including ower sheet: 3

Comments: Revised TAGE I For ARCO No. 4931, OAKIAND, which we cludes lead tesults for steel truk capity.





Page 1 of 2

Sample		Depth				BTEX Distinction(1)			
Designation	Date	(feet bgs)	TPH-G(1)	TPH-D (1)	O&G(1)	Benzenc	Toluene	Ethyl Benzene	Xylenc
\$W1	11/22/91	12	15	NA	NA	0.74	0.03	0.14	23
SW2	11/22/91	14	16	NA	NA.	0.56	0.3	0.39	2.0
SW3	11/22/91	12	5.2	NA	NA	0.088	0.094	0.12	0.84
SW4	11/22/91	12	2,3	NA	NA	0.15	0.18	0.061	0.31
SW5	11/22/91	14	ND	NA	NA	ND	ND	ND	ND
SW6	11/22/91	12	5.3	NA	NA	13	0.26	0,16	0.39
SW7	11/22/91	12		NA	NA	0.66	0.22	1.1	1,0
sw8	11/22/91	14	14	NA	NA	0.013	0.037	0.0088	0.061
sw9	11/22/91	12	28	NA	NA	0.61	0.13	0.14	0.83
SW10	11/22/91	12	8.6	5.8	1000	0.24	0.24	0.065	0.23
SW11	11/22/91	12	57	15	130.	0.36	0.13	0.38	1.3
SWIL CONTRACT	11/21/94	1000 10 00 (*****	.00			21	56	290
SW13	11/22/91	12	ND	6.2	ND	0.015	ND	ND	0.026
T1A	11/22/91	12	1.3	1.2	35	0.017	0.009	ND	0.035
T1B	11/22/91	12	4.7	14	ND	0.06	0.098	0.01	0.073
ST-A	11/22/91	14	29	NA.	NA	0.44	0.041	0.041	0.16
ST-B	11/22/91	15	ND	NA	NA	ND	ND	ND	ND

FOOTNOTES

BTEX Distinction (USEPA Method 8020)

NA = Not Analyzed

ND = Not Detected

bgs = Below ground surface

^{(1) =} Concentrations reported in mg/kg (ppm)

TPH-G = Total Petroleum Hydrocarbons As Gasoline (Modified USEPA Method 8015)

TPH-D = Total Petroleum Hydrocarbons As Diesel (Modified USEPA Method 8015)

O&G = Oil and Greasc (ASTM Method 5520 E & F)

63

NA

NA

56

NA

NA.

Cull < me soo yem

TABLE 1: Summary of Soil Analyses: Tank Cavity

Page 2 of 2 ARCO Facility No. 4931, Oakland, California 20 250 5.0 STLC Koro 2,000 2500,00 5 W 100 THE Metals (1) Sample Depth Chromium Nickel Zinc Cadmium Lead Designation (feet bgs) VOCs(1) Date 11 NA NA NA NA NA SW1 11/22/91 12 11 NΑ NA SW2 14 NA NA NA 11/22/91 NA NA NA NA. SW3 12 NA NA 11/22/91 NA NA NA NA NA SW4 11/22/91 12 NA NA NA NA SW5 11/22/91 14 NA NA ΝA NA NA NA NA **SW6** 11/22/91 12 NA NA NA 12 NA NA NA SW7 11/22/91 12 NA NA NA NA NA NA SW8 11/22/91 14 NA 11 NA NA NA. NA NA SW9 11/22/91 12 59 ND 58 44 ND* 0.61 SW10 11/22/91 12 52 68 42 5.7 ND* ND **SW11** 11/22/91 12 5.7 48 61 0.51 41 SW12 12 11/22/91 (4) 62 45 60 44 ND* 0.51 12 **SW13** 11/22/91 60 49 66 81 12 ND* 0.62 T1A 11/22/91

0.54

NA

NA

46

NΑ

NA

62

NA

NA

FOOTNOTES

T1B

ST-A

ST-B

12

14

15

VOCs = Volatile Organics (USEPA 8240)

11/22/91

11/22/91

11/22/91

Metals (atomic absorption or ICP)

NA = Not Analyzed

ND = Not Detected

ND* - All compounds not detected except BTEX, which is reported on page 1 of this table.

ND*

NA

NA

(2) = All compounds ND except BTEX, which is reported on page 1 of this table, and marious, 200 mg/sg.

bgs = Below ground surface

^{(1) =} Concentrations reported in mg/kg (ppm)

ENVIRONMENTAL CONSULTING AND MANAGEMENT

ROUX ASSOCIATES

FAX TRANSMITTAL

1350 ARNOLD DRIVE SUITE 201 MARTINEZ, CALIFORNIA 94553

Date: 12-9-91

TO: NS. SUSAN HUSO

Company: Alameda County Health Agency

FAX No: 510 568 3706

From:

PAUL Supple

Project No.:

A134Wol Roux Associates, Inc.

Fax No.:

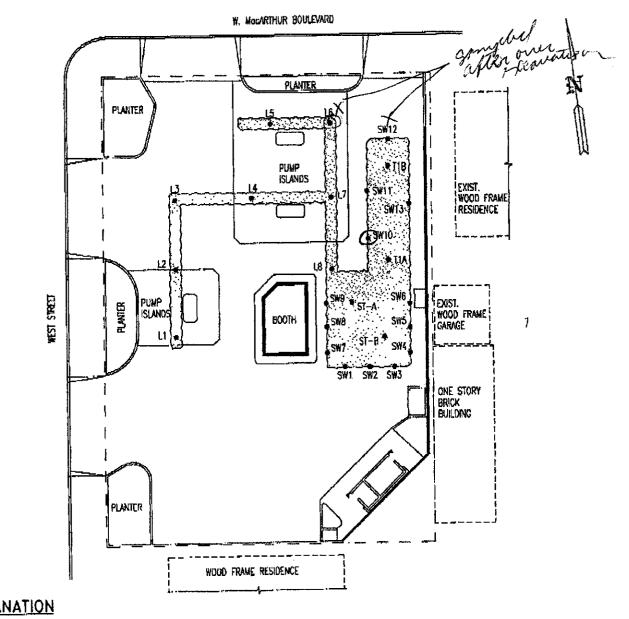
510-370-2235

Phone No:

510-370-2275

Number of mater including ownr sheet: 5

Comments: Laboratory results for soil samples collected from the former tank choirty and product line trendues at ARO Facility No. 4931 at 731 W. MacArthur Blud., Oakland, CA.



EXPLANATION

EXCAVATED AREAS.

SOIL SAMPLE LOCATION AND DESIGNATION. • LI

SOURCE;

DRAWN FROM MAP IL-1 PROVIDED BY BARCHAUSEN CONSULTING ENGINEERS.

0,	30'		60'
	APPROXIMATE	SCALE	

ROUX
ROUX ASSOCIATES, INC.

-	COMPILED BY: P.S. PREPARED FOR:	ARCO PRODUCTS COMPANY	FIGURE
NC.	PREPARED BY: R.P. PROJECT MNCR. P.S. TITLE: DATE: 11/91 SCALE: AS SHOWN	LOCATION OF TANK CAVITY AND PRODUCT LINE TRENCH SOIL SAMPLES	2
	PROJECT NO. A134W01 TILE NAME: AR4931XX	ARCO FACILITY NO. 4931	

TABLE 1: Summary of Soil Analyses: Tank Cavity

ARCO Facility No. 4931, Oakland, California

Page 2 of 2

Sample		Depth		Metals (1)					
<u>Designation</u>	Date	(feet bgs)	VOCs(1)	Cadmium	Chromium	Lead	Nickel	Zinc	
SW1	11/22/91	12	NA	NA.	NA		NA	NA	
SW2	11/22/91	14	NA	NA	NA		NA	NA	
SW3	11/22/91	12	NA	NA	NA	NA	NA	NA	
SW4	11/22/91	12	NA	NA	NA	NA	NA	NA	
SW5	11/22/91	14	NA	NA	NA	NA	NA.	NA	
SW6	11/22/91	12	NA	NA	NA	NA	NA	NA	
sw7	11/22/91	12	NA	NA	NA		NA	NA	
SW8	11/22/91	14	NA	NA	NA	NA	NA	NA	
SW9	11/22/91	12	NA	NA	NA		NA	NA	
SW10	11/22/91	12	ND*	0.61	44	ND	58	59	
SW11	11/22/91	12	ND*	ND	42	5.7	52	68	
SW12	41/12/91	· ->12		0.51	41	5.7	48	61	
SW13	11/22/91	12	ND*	0.51	44	6.2	45	60	
T1A	11/22/91	12	ND*	0.62	49	6.6	81	60	
T1B	11/22/91	12	ND*	0.54	46	6.2	56	63	
ST-A	11/22/91	14	NA	NA	NA	NA	NA	NA	
ST-B	11/22/91	15	NA	NA	NA	NA	NA	NA	

FOOTNOTES

VOC4 = Volatile Organics (USEPA 8240)

Metals (atomic absorption or ICP)

NA = Not Analyzed

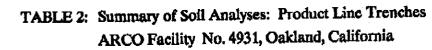
ND = Not Detected

ND* = All compounds not detected except BTEX, which is reported on page 1 of this table.

(2) = All compounds ND except BTEX, which is reported on page 1 of this table, and acctone, 580 mg/kg.

bgs - Below ground surface

^{(1) =} Concentrations reported in mg/kg (ppm)



ROUX ASSOCIATES INC.

Sample		Depth	_		istinction(1)		
Designation	Date	(feet bgs)	TPH-G(1)	Benzene	Toluene	Ethylbenzenc	Xylenes
L1	11/2/91	3,5	ND	ND	ND	ND	ND
1.2	11/2/91	3.5	ND	ND	ND	ND	ND
L3	11/2/91	3.5	ND	ND	ND	ND	ND
LA	11/2/91	3.5	6.6	034	0.012	0.034	0.026
1.5	11/2/91	3.5	ND	ND	ND	ND	ND
Long appropriate to	11/2/90	33		31	arini an eka	MARKET COMPANY	300
L7	11/2/91	3.5	14	0.058	0.026	0.0061	0.028
 L8	11/2/91	3.5	4.4	0,018	ND	0,0082	0.0022

FOOTNOTES

(1) = Concentrations reported in mg/kg (ppm)

TPH-G =Total Petroleum Hydrocarbons As Gasoline (Modified USEPA 8015)

BTEX Distinction (USEPA 8020)

ND = Not Detected

bgs = Below ground surface



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

November 26, 1991

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update

ARCO Service Station 4931 731 West MacArthur

Oakland, California, 94611

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of November 1991 and site activities anticipated for the month of December 1991.

Status of Previous Month's Activities:

October 28:

Remedial system bids recieved

Anticipated Work to be Performed in the Next Month:

Award interim remedial system contract.

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas

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





white -env.health yellow -facility pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardo	ous	<u>Mate</u>	rials	Ins	pection	on Form
		10.1			7 9.	10 11 1

			1.09/1-1 4:30 1-19	"",""
•			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Today's 20, 91
li.A	BUSINESS PLANS (Title 19) 1. Immediate Reporting 2. 8us. Plan Stds. 3. RR Cars > 30 days 4. Inventory Information 5. Inventory Complete 6. Emergency Response 7. Training 8. Deficiency 9. Modification	2703 25503(b) 25503.7 25504(a) 2730 25504(b) 25504(c) 25505(a) 25505(b)	Site Address 73/W, Mac City Oakland zip 946 MAX AMT stored > 500 lbs, 55	arthur Blvd.
i.B	ACUTELY HAZ, MATLS		Inspection Categories: I. Haz. Mat/Waste GENERATOR	
	10. Registration Form Filed 11. Form Complete 12. RMPP Contents 13. Implement Sch. Reqid? (Y/N 14. OffSite Conseq. Assess. 15. Probable Risk Assessment 16. Persons Responsible 17. Certification 18. Exemption Request? (Y/N) 19. Trade Secret Requested?	25533(a) 25533(b) 25534(c) i) 25524(c) 25534(d) 25534(g) 25534(f) 25536(b) 25538	* Calif. Administration Code (CAC) or the incomments: 4 - Underground tanks * Comments:	Health & Safety Code (HS&C)
III. I	UNDERGROUND TANKS (Title	23)	7 11100	RESIDENTIAL NORTH
General	1. Permit Application2. Pipeline Leak Detection3. Recards Maintenance	25284 (H&S) 25292 (H&S) 2712 2651 2670	# 1	
Monitoring for Existing Tanks			3 10/1. EL 3/1.02 + G,000 G A 13/2. LEL 1/02 - R,000 G B 11.5 IEL 2/02 - R,000 G P 11.5 IEL 2/02 - R,000 G P Strong Carper P 3LEL 3/1.02 - Pricers la W. Mac arth	W Blv d
Tesks	10. Ground Water11.Monitor Pian12.Access. Secure13.Plans Submit	2647 2632 2634 2711	manifost for took #	91507387 (TANICSAGO 91507389 (tone 8)
ž Ž	Date: 14. As Built Date:	2635	manyer for park #	71501386 (Jank D)
9	1/88		* Free floating product	
	Contact: <u>/</u>	mark ?	rulca-Paradiso	II, III
	Title: <u> </u>	Wan.	Inspector: Signature:	Susan S. Hugd



2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545 91 NOV 13 Pil 1:23

(510) 352-4800

October 30, 1991

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update ARCO Service Station 4931

731 West MacArthur

Oakland, California, 94611

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of October 1991 and site activities anticipated for the month of November 1991.

Status of Previous Month's Activities:

October 12, 1991;

Conducted groundwater sampling for fourth quarter,

construction

of

interim

1991.

October 25, 1991:

Issued QMR for third quarter, 1991.

closed

October 28, 1991:

for

remediation system.

Anticipated Work to be Performed in the Next Month:

Biding

- * Install new on-site recovery well.
- * Contractor to begin installation of interim remedial system.

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas

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

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

Mailing Address: Box 6411 Artesia, California 90702-6411



91 OCT 31 2311:27

October 29, 1991

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

RE: UST PERMITS

Dear Mr. Smith:

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

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

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

Arco Facility #4494 566 Hegenberger Rd. Oakland Arco Facility #6002 6235 Seminary Ave. Oakland Mr. Smith October 29, 1991 Page 2

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

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

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

I look forward to hearing from you.

Sinçerely,

Judy L. Mason Permit Coordinator

Environmental, Health, and Safety

Attachment

ARCO PRODUCTS COMPANY FACILITY LIST - LOS ANGELES REGION BY STATE COUNTY 10/24/1991, 09:20 AM

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE		ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA	94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	DAKLAND	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 57 V	17601 HESPERIAN BLVD 899 RINCON AVENUE	SAN LORENZO LIVERMORE	CA CA	94580 94550	HACIENDA/HESPERIAN B PINE/RINCON AVE	415-278-2977 415-447-1329
02035 02107	RAHMAN FARSI/MAJID GHANADAN PRITINDER ARORA	1001 SAN PABLO AVENU 3310 PARK BLVD.	ALBANY OAKLAND	CA CA	94706 94610	MARIN/SAN PABLO AVE MACARTHUR/PARK BLVD	415-525-1362 415-532-1716
02112	JAVAD ROOSHAN 5 90 1	1260 PARK STREET	ALAMEDA	CA	94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A HALKER	22141 CENTER ST.	CASTRO VALLEY	CA	94546	GROVE/CENTER ST	415-581-1268
02169 02185 04494 04931 04977	RAMESH SOOD B J A INC KHALIL N ROOSHAN 5 W / VINTNERS DISTRIBUTORS INC MICHAEL SEROY	889 W GRAND AVE 9800 E 14TH ST 566 HEGENBERGER RD. 731 W MACARTHUR BLVD 2770 CASTRO VALLEY R	OAKLAND OAKLAND OAKLAND OAKLAND CASTRO VALLEY	CA CA CA CA	94607 94603 94605 94611 94546	MARKET/W GRAND AVE 98TH/E 14TH EDES/HEGENBERGER RD WEST/W MACARTHUR BLV WISTERIA/CASTRO VALL	415-465-4450 415-568-0590 415-569-7561 415-658-5000 415-582-6919
06002 06041 06113 06148	RONALD E TEUTSCH	6235 SEMINARY AVENUE 7249 VILLAGE PARKWAY 785 E STANLEY BLVD 5131 SHATTUCK AVE.	OAKLAND DUBLIN LIVERMORE OAKLAND	CA CA CA	94566		415-633-1042 415-828-3163 415-449-2024 415-654-3461

ARCO PRODUCTS COMPANY FACILITY LIST - LOS ANGELES REGION BY STATE COUNTY 10/24/1991, 09:20 AM

STATE: CALIFORNIA

COUNTY: ALAMEDA

CROSS

	_	ADDRESS	CITY/STATE		ZIP	CROSS STREET	PHONE
FAC	DEALER		DAKLAND	CA	94605	10TH AVE/MACARTHUR B	415-635-4641
00276	DAI VAN VO	10600 MACARTHUR BLVD		CA	94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA			415-449-1448
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA	94550	3RD ST/S LIVERMORE A	
00498	JATME & LEONORA ABADAM SYN	17601 HESPERIAN BLVD 899 RINCON AVENUE	SAN LORENZO LIVERMORE	CA CA	94580 94550	HACIENDA/HESPERIAN B PINE/RINCON AVE	415-278-2977 415-447-1329
02035	JERRY SHIELDS RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU	ALBANY OAKLAND	CA CA	94706 94610	MARIN/SAN PABLO AVE MACARTHUR/PARK BLVD	415-525-1362 415-532-1716
02107	PRITINDER ARORA	3310 PARK BLVD.		CA	94501	ENCINAL/PARK ST	415-865-7335
02112	JAVAD ROOSHAN 57	1260 PARK STREET	ALAMEDA			GROVE/CENTER ST	415-581-1268
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA	94546	SKUVEN CERTER OF	
02169 02185 04494	RAMESH SOOD B J A INC	889 W GRAND AVE 9800 E 14TH ST 566 HEGENBERGER RD. 731 W MACARTHUR BLVD	OAKLAND OAKLAND OAKLAND OAKLAND	CA CA CA CA	94607 94603 94605 94611 94546	MARKET/W GRAND AVE 98TH/E 14TH EDES/HEGENBERGER RD WEST/W MACARTHUR BLV WISTERIA/CASTRO VALL	415-465-4450 415-568-0590 415-569-7561 415-658-5000 415-582-6919
04931 04977	MICHAEL SEROY	2770 CASTRO VALLEY R	CASTRO VALLEY	Ų,	,,,,,,		
06002 06041 06113 06148	RONALD E TEUTSCH PRESTIGE STATIONS INC 5158	6235 SEMINARY AVENUE 7249 VILLAGE PARKHAY 785 E STANLEY BLVD 5131 SHATTUCK AVE.	OAKLAND DUBLIN LIVERMORE OAKLAND	CA CA CA	94566 94550	MURRIETTA/E STANLEY	415-633-1042 415-828-3163 415-449-2024 415-654-3461

ARCO Products Company Monitoring and Response Plans

County Manueda - Public Health

			duct nks		duct	ELECTRONIC Tank	Probe in	LIME Leak		ed Oil ank	Monitoring
	Facility	DW	SW ·	DW	SW	Monitor	Sump	Detector	DW	SW	Plan
100 Macarthus Blod De	PS 276	~		V		~	~	V			1
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19 W. GRAD AVE. OOK	9B 2169		~		~			~			111
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731 re ordered	4 4931		V		/	·		レ	1		111
1710 Casins Valley Hid.	SB 4977	·	~		·-			レ		1	111
235 Seminangane a	1 PS 6007	5 % v 3	~		V			~			111
249 V: Hage Parkung Swale	PA 6041		~		-			~			Ш
1858, Storley Liv.	4613	~			V			V			\V <i>A</i>
7/31 Shatthelan	14 6148		~		ا			~			(1)
LAK											

5H-7 96-1 199-7 BC-7 123-1 RA-1 ## 5th Hegenburge Kd - approved classes & installation plan

5y permit

Remediation

ARCO Products Compan 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

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,

Jam D Rthisfor Kyle A. Christie

Environmental Engineer

Attachments:

ARCO Facility QSRs

UST LEAK		Date of Last		Current		
SITE UPDAT	E	Review/Update: <u>6</u>	/21/91	Date: 8/26/91		
SITE IDENI	IFICATION					
	rco Products Com			Case No		
Address: _	731	Wes Wes		rthur Boulevard		
	Street Number		Stree	et		
<u>0</u>	akland			94611		
		City		Zip Code		
County: A	lameda		Subst	tance: Gasoline		
Local Agen	cy: <u>Departm</u>	ent of Environmental	Health_			
Regional B	oard: <u>San Fra</u>	ncisco Bay Region				
LEAU STAFF	PERSON: Cliff G	arratt				
Unde		Soil Only X G		Drinking Water		
	Date indicates w	nen case moved into st		Drinking Water		
Undo	Date indicates wi	nen case moved into st		· · · · · · · · · · · · · · · · · · ·		
Undo	Date indicates who No Action Tab Leak Being Co	nen case moved into st ken onfirmed	tatus)	Date <u>Nov. 198</u> 2		
Unde	No Action Tal Leak Being Co Prelim. Site	nen case moved into st ken onfirmed Assessment Workplan S	tatus) Submitted	Date <u>Nov. 1982</u> Date		
Undo	No Action Tal Leak Being Co Prelim. Site Preliminary S	nen case moved into st ken onfirmed Assessment Workplan S Site Assessment Underv	tatus) Submitted	Date <u>Nov. 1982</u> Date Date <u>Dec. 1982</u>		
Undo	No Action Tal Leak Being Co Prelim. Site Preliminary S Pollution Cha	nen case moved into state ken onfirmed Assessment Workplan S Site Assessment Undervaracterization	tatus) Submitted	Date <u>Nov. 1982</u> Date Date <u>Dec. 1982</u> Date <u>June 1986</u>		
Understands (I	No Action Tal Leak Being Con Prelim. Site Preliminary S Pollution Char Remediation 1	nen case moved into state confirmed Assessment Workplan Site Assessment Undervaracterization	tatus) Submitted	Date <u>Nov. 1982</u> Date Date <u>Dec. 1982</u> Date <u>June 1986</u> Date <u>May 1991</u>		
Undo	No Action Tal Leak Being Con Prelim. Site Preliminary S Pollution Char Remediation 1 Remedial Action	nen case moved into state confirmed Assessment Workplan Site Assessment Undervaracterization Plan ion Underway	tatus) Submitted	Date Nov. 1982 Date Date Dec. 1982 Date June 1986 Date May 1991 Date		
Undo	No Action Tal Leak Being Con Prelim. Site Preliminary S Pollution Char Remediation 1 Remedial Actions	nen case moved into state confirmed Assessment Workplan State Assessment Undervarianted Plan ion Underway Action Monitoring	tatus) Submitted	Date Nov. 1982 Date Date Dec. 1982 Date June 1986 Date May 1991 Date Date		
Undo	No Action Tal Leak Being Con Prelim. Site Preliminary of Pollution Char Remediation I Remedial Action Post Remedial Case Referred	nen case moved into state confirmed Assessment Workplan Site Assessment Undervaracterization Plan ion Underway	tatus) Submitted vay	Date Nov. 1982 Date Date Dec. 1982 Date June 1986 Date May 1991 Date		

Currently there are eleven monitoring wells. These wells were installed between 1982 and 1987. Quarterly groundwater monitoring and sampling began in 1989. Please refer to the attached page for a chronological listing of reports issued for this site.

During the second quarter a hybrid step-draw down/constant rate test was performed. The results of the test suggest that down gradient hydrologic influence can be expected from a recovery system using well A-9 as a recovery well. Refer to the remedial action plan dated May 15, 1991 by GeoStrategies Inc.

Anticipated activities for this site include the design and construction of a remedial system and removal and replacement of the underground storage tanks (UGST). Quarterly groundwater monitoring and sampling will continue as scheduled.

REPORT	DATE	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
Site Update	October 4, 1990	GeoStrategies Inc.
Site Update	January 28, 1991	GeoStrategies Inc.
Site Update	May 3, 1991	GeoStrategies Inc.
Remedial Action Plan	May 15, 1991	GeoStrategies Inc.
Aquifer Test Report	July 10, 1991	GeoStrategies Inc.
Quarterly Monitoring Report	July 12, 1991	GeoStrategies Inc.



(415) 352-4800

September 27, 1991

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update

ARCO Service Station 4931

731 West Macarthur

Oakland, California, 94611

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of August 1991 and site activities anticipated for the month of September 1991.

Status of Previous Month's Activities:

August 29, 1991:

Submitted draft quarterly monitoring report for ARCO

review, Final report due October 18, 1991.

September 17, 1991:

Mailed check for oversight fee, \$670.00, to Alameda

County.

September 23, 1991:

Forward repsonce to August 16 Alameda letter.

September 26, 1991:

submitted draft of remedial system design and

specifications for ARCO review.

Anticipated Work to be Performed in the Next Month:

- * Release recovery system for bidding process.
- * Install new on-site recovery well.

Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas

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

September 16, 1991

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

Mr. Paul Wilton Barghausen Consulting Engineers 4612 Roseville Road, Suite 103 North Highlands, CA 95660

RE: Underground Tank Closure and Installation Plan
731 West MacArthur Blvd., Oakland 94609

Dear Mr. Wilton:

I have reviewed the Underground Tank Closure and Installation Plan for the referenced site. The Underground Tank Closure Plan is acceptable provided the following items are followed:

- 1) EPA I.D. No. under which the tanks will be manifested must be provided to this office.
- 2) As I have noted in the closure plan, soil and/or groundwater if present must be sampled. One soil sample must be collected from beneath each end of the tank at the native soil/backfill interface but no deeper than two feet below the tank bottom.
- 3) Please provide the estimated volume of the stockpiled soil. As stated in the soil sampling methods submitted to this office, four soil samples will be collected for every 50 cubic yards of stockpiled soil, and composite into one by the State certified laboratory.
- 4) The soil and/or groundwater samples must be analyzed for the following contaminants: Total Petroleum Hydrocarbon (TPH) as gasoline; Benzene, Toluene, Ethyl Benzene, Xylene (BTXE); and Total Lead as recommended in the Tri- Regional Board Guidelines. I made a note of this information in the closure plan.
- 5) Please provide us with the name of the Field Superintendent who will conduct pre-job site safety briefing with all personnel; the name of the Site Safety Officer; the name of person assigned as emergency contact and their telephone number; and the nearest hospital.

The Underground Tank Closure Plan is approved on the condition that the five items listed above are met.

Mr. Paul Wilton Barghausen Consulting Engineers September 16, 1991 RE: 731 W. MacArthur Blvd., Oakland Page 2 of 2

As for the Underground Tank Installation Plan, please provide the following items to this office:

- 1) Submit the **revised** Form B and the **new** Form C for each tank. Enclosed are four blank Forms "B" and "C".
- 2) The hold down calculations for the tanks.
- 3) The manufacturer's brochures with the specifications for the double-walled tanks (striker plates beneath all primary tank openings must be noted); the primary and secondary piping systems; the spill container; and the overfill prevention system.
- 4) Documentation that the location where the four tanks will be installed is not contaminated. Our records showed history of an unauthorized leak from underground storage tanks at this site.

The installation plan for the four underground storage tanks will be approved as soon as the four items listed above are met.

Should you have any questions concerning this letter, please contact me at (510) 271-4320.

Sincerely,

Susan Hugo

Hazardous Materials Specialist

enclosures

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health Ron Knutson, ARCO Products Company (P.O. Box 6411, Artesia, California, 90702-6411)

Mark Thompson, Alameda County District Attorney's Office Files



gettler — ryan inc.

91 SEP 16 FILL: 04

September 12, 1991

County of Alameda Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, California 94621

Attention:

Ms. Susan L. Hugo

Certified Mail

Reference: ARCO Service Station #4931 731 W. MacArthur Street

Oakland, California 94611

Ms. Hugo:

On behalf of ARCO Products Company, we are enclosing a check in the amount of \$670.00 which you requested in your August 16, 1991 letter for the costs involved in overseeing and reviewing reports and proposals.

If you should have any questions or comments, please call.

Sincerely,

Keith E. Bullock

KEB/jpz

Enclosure

Mr. Charles Carmel, ARCO Products Company Mr. H. C. Winsor, ARCO Products Company



qettler — ryan inc.

general contractors

August 22, 1991

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update ARCO Service Station 4931 731 West MacArthur Oakland, California, 94611

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of July 1991 and site activities anticipated for the month of August 1991.

Status of Previous Month's Activities:

July 12, 1991: Forwarded a copy of Quarterly Monitoring Report for the second quarter.

Anticipated Work to be Performed in the Next Month:

August 16, 1991: Letter from the Alameda County Health Agency, with requirements to initiate the Remedial Action Plan. Also a charge of \$670 to oversee the site.

Prepare design drawings for the installation of a groundwater recovery system. These drawings will then be put through the bidding process.

Please call if you have any questions concerning this letter.

Sincerely,

Keith Bullock

KB/clm

cc: Mr. Larry Seto, Alameda County Health Agency, Department of Environmental Health (certified mail)

August 16, 1991

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

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

RE: Work Plan for Subsurface Investigation and Remediation at ARCO Station - 731 W. MacArthur Boulevard, Oakland CA 94609

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the files concerning the soil and groundwater contamination from underground storage tanks at the referenced site. We are in receipt of the following reports:

Site Update (May 3, 1991) prepared by GeoStrategies and submitted by Gettler- Ryan Inc.

Remedial Action Plan (May 15, 1991) prepared by GeoStrategies and submitted by Gettler-Ryan Inc.

Aquifer Test Report (July 10, 1991) prepared by GeoStrategies and submitted by Gettler-Ryan Inc.

Quarterly Monitoring Report (July 12, 1991) prepared by GeoStrategies and submitted by Gettler-Ryan Inc.

The referenced site had experienced an unauthorized release of petroleum hydrocarbon products from leaking underground storage in November, 1982. There are 11 monitoring wells at the site (9 wells onsite and 2 wells offsite) installed between 1982 and 1987. Historically, separate-phase product has been detected in four onsite wells at thickness between 0.01 feet to 4.0 feet. TPH gasoline from non detect up to 1500 ppm were detected in the onsite wells.

Based on this review, the following areas of concern to this department must be addressed:

- * Dissolved hydrocarbon plume has not been delineated in the up-gradient direction. Additional monitoring wells must be installed up-gradient of the underground storage tanks location.
- * 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 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

Mr. Charles Carmel August 16, 1991 Page 2 of 3 event is begun, free product thickness and water level must be determined. * Additional recovery well must be installed based on the Aquifer Test conducted on April 4 and 5, 1991. Pumping Well A-9 was not sufficient in creating a capture zone for the dissolved contaminant in the area of Well A-2. * The Remediation Action Plan is acceptable provided the following conditions are met a) The overall effectiveness of the remediation plan is verified by an appropriate monitoring program. b) A time schedule for plan implementation must be submitted which addresses the expedient removal of all free product at the site including monitoring and tabulating actual amount. c) Permit requirements from other regulatory agencies which are applicable to the proposed remediation system must be followed. d) A contingency plan must be submitted which addresses actions to be implemented if the remediation system is ineffective in mitigating the contamination at the site. Reports documenting implementation of the 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 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 You may implement remedial actions before approval of the work plan 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.

Mr. Charles Carmel August 16, 1991 Page 3 of 3

A report must be submitted within 30 days after completion of this investigation. Subsequent reports must be submitted quarterly until this 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 work plan must be confirmed in writing and approved by this agency.

To cover our cost for overseeing and reviewing reports and proposals, please remit \$670 payable to County of Alameda.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,

Susan L. Hugo Susan L. Hugo

Hazardous Materials Specialist

Rafat A Shahid, Asst. Agency Director, Environmental Health Eddie So, San Francisco Bay RWQCB Howard Hatayama, State Department of Health Services Keith Bullock , Gettler-Ryan Inc. Mark Thompson, Alameda County District Attorney's Office

VFiles

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,

/ Kyle A. Christie

Environmental Engineer

Lui Struster

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	Cu	rrent
SITE UPDATE	Review/Update:	4/8/91	Date: <u>6/21/91</u>
SITE IDENTIFICATION	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Name: Arco Product	s Company #4021		
Address: 731	s company #4931	West Machath	Case No nur Boulevard
Street Numb	per	Street	iur Boulevard
Oakland		0.4.4.4.4	
Oaktand	City	94611	Zip Code
County: County of Ala	meda	Substance:	~~~~1 du -
Local Agency: Depar	tment of Environm	ental Health	
Regional Board: San I	Francisco Bay Regi	on	
LEAD STAFF PERSON			
CASE TYPE			
			Drinking Water
STATUS (Date indicate	es when case moved	into status)	****
No Action	Taken		
Leak Bein			Date
Prelim. Si	te Assessment Wor	kplan Submitted	Date
Preliminar		Underway	Date
Pollution			Date
Remediation Remedial			Date
Post Reme		rina	Date
Case Refe			Date
Case Refe	rred to Dept. of He	ealth Services	Date
Case Close	ed		Date
REMEDIAL ACTIONS: A F	Remedial Action Rem	oort (RAP) was is:	sued during this
quarter outlining the	proposed remedial	system for this	site.
COMMENTS:In the prev	ious quarter Cettl	ler-Pyan Inc. nor	formed arrangement
monitoring for use in	preparing potentic	ometric and hydro	carbon
isoconcentration maps	. The respective co	ontour mans are i	adt atelleve at best
condition of the group	ndwater beneath th	e site. No signif	cant changes have
been noted at this sit	te. Water level mor	nitoring and samp	ling will continue
on a quarterly basis. listing of reports iss	sued for this site.	e attached page :	for a chronological
RESPONSIBLE PARTY ID	ENTIFICATION (on)	v if newly discou	ered or changed
Names		, it heary discov	ered or changed)
Contact:		Phone (
		rnone (
Address: Street Num	nber	C++	reet
		SCI	eet
Cit	У	State	Zip Code

REPORT	DATE	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
Site Update	October 4, 1990	GeoStrategies Inc.
Site Update	January 28, 1991	GeoStrategies Inc.
Site Update	May 3, 1991	GeoStrategies Inc.
Remedial Action Plan	May 15, 1991	GeoStrategies Inc.

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

11,111

	Site Site Name aver Station Today's 7, 10, 9/
II.A BUSINESS PLANS (Tifle 19) 1. immediate Reporting 2703 2. Bus. Plan Sids. 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 731 W. Mae athur Blud City Dakland Zip 94 609 Phone (15) 658-5073 — MAX AMT stored > 500 lbs, 55 gal., 200 cft.? Inspection Categories:
1.6 ACUTELY HAZ. MATLS 10. Registration Form Filed 25533(d) 11. Form Complete 25533(d) 12. RMPP Contents 25534(c) 13. Implement Sch. Regict? (Y/N) 14. OffSite Conseq. Assess. 25524(c) 15. Probable Risk Assessment 25534(d) 16. Persons Responsible 25534(d) 17. Certification 25534(f) 18. Exemption Request? (Y/N) 25536(b) 19. Trade Secret Requested? 25538	I. Haz. Mat/Waste GENERATOR/TRANSPORTER II. Business Plans, Acute Hazardous Materials III. Underground Tanks Calif. Administration Code (CAC) or the Health & Safety Code (HS&C) Comments: 4 - UGIS on publication
III. UNDERGROUND TANKS (Tifle 23) 1. Permit Application	1 - 8 000 gal 8 000 gal. 1 - 6,000 gal
	Super - 12,000 gal An ventory fecenciliation - update. No tank information awailable or site. Results of precision testing not Qualable. Deseral Needs: 1) Heig Copies of all underground took records on site. 2). Submit permit application A & B 3) Submit a monitoring plan 4) Submit recent leak defection test
11.Monitor Pion 2632 12.Access. Secure 2634 13.Pians Submit 2711 2 Date:	5) Quarterly monitoring should be submitted regularly at the bright address-80 Swam Way Room 200, Oakland 94621
Contact: RAT Title: Manag Signature:	1 III I CLOTAL Jan Sealer Inspector: Signature: Susan Jugo

January 22, 1991

TO: Gil Wistar FROM: Susan Hugo

SUBJECT: Update on ARCO facilities in my district

731 W. MacArthur Blvd. 94609

Reviewed the file (1-8-91): has four underground tanks with interim permits issued on 9-6-88. A leaked occurred last November, 1982 in the super unleaded gasoline tank. ULR was submitted. There are 11 groundwater monitoring wells on site. RWQCB is not actively overseeing this case. There's no deposit/refund filed for this address. Precision testing results dated 2-12-88 and 10-31-89 are the only tank testing results located in the file. Free floating product found on 4 wells. On 7-5-89, proposed to install a separate phase recovery system. Quarterly monitoring reports have been submitted. Last report received was for the third quarter of 1990 with the following results: < 50 ppb to 40,000 ppb TPH; < 0.5 ppb to 1,400 ppb benzene; < 0.5 ppb to 340 ppb toluene; < 0.5 ppb to 1,400 ppb ethyl benzene. Proposed to prepare a remedial action plan in the third quarter of 1990 report.

Inspected the facility (1-10-91): has a business plan on file (submitted in 1989). Daily inventory reconciliation is up to date. Only two quarterly monitoring report (7/15/90 & 10/15/90) were submitted. Requested to submit a copy of the latest precision testing results and that quarterly monitoring reports should be submitted regularly. Also requested to keep copies of all underground tank monitoring records on site for three years. Dealer (who has 3 Shell Stations) said that Arco is not as good as Shell in giving them assistance, so he himself implement what he is doing at his Shell Stations to this Arco facility.



qettler — ryan inc.

er nu 17 1111:39

July 8, 1991

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

Attention:

Mr. Charles Carmel

Reference:

Monthly Site Status Update ARCO Service Station 4931

731 West Macarthur

Oakland, California, 94611

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of May 1991 and site activities anticipated for the month of June 1991.

Status of Previous Month's Activities:

May 15, 1991: Forwarded a copy of the Remedial Action Plan.

Anticipated Work to be Performed in the Next Month:

5 Bulan

June 24, 1991: No comment from the Alameda County Health Agency, on the Remedial Action Plan.

Please call if you have any questions concerning this letter.

Sincercly,

Keith Bullock

KB/elm

cc: Mr. Larry Seto, Alameda County Health Agency, Department of Environmental Health

<u>,ceners</u>			$(O_1)_{\bullet}$	
UST LEA	AK ;	Date of Last		Current
SITE UP	DATE	Review / Update		Date 1/2/91
SITE IDENT	IFICATION			
Name	Arco Pr	oducts Company #4931		Case No.
Address	731	West M	acArthur Boulevard	
	Street Numbe		Street	01/44
\ -	0ak land	City	The state of the s	94611 ZIP Code
County	County	of Alameda	Sub	ostance <u>gasoline</u>
Local Agenc	;y _ <u> </u>	Department of Environme	ntal Health	
Regional Bo	ard I	North Coast		
LEAD STAF	F PERSON			
CASE TYPE				
Unc	determined	Soil Only	Groundwater	Drinking Water
STATUS (D	ate indicate:	when case moved into status)		
1	o Action Tal			· .
	eak Being C relim. Site A	onnrmed ssessment Workplan Submitte	d	Date
J		ite Assessment Underway	o .	Date
		racterization		Date
·	emediation			Date
		on Underway		Date
•		Il Action Monitoring	•	Date
ł		d to Regional Board d to Dept. of Health Services	-	Date
	ase Closed	to Dept. of Fleatiff Services		Date
REMEDIAL ACTIONS	· • • • • • • • • • • • • • • • • • • •			
COMMENTS	for use The res groundw	in preparing potentiom pective contour maps ar ater beneath the site.	etric and hydrocar e used to evaluate	
		ificant changes have be		
				e on a quarterly basis.
	Please issued	refer to the attached p for this site.	age for a chronolog	gical listing of reports
RESPONSIBI	LE PARTY II	DENTIFICATION (Only if newly	y discovered or changed)	
Name				
Contact				()
Address			•	
	Street Num	ber	Street	
		City	State	ZIP Code

REPORT	DATE	CONSULTANT
Groundwater Investigation Report	June 18, 1986	EMCON
Groundwater Investigation Report	January 20, 1988	Pacific Environmental Group
Quarterly Groundwater Sampling Report	April 20, 1989	GeoStrategies Inc.
Quarterly Groundwater Sampling Report	September 12, 1989	GeoStrategies Inc.
Quarterly Report	December 5, 1989	GeoStrategies Inc.
Quarterly Report	February 13, 1990	GeoStrategies Inc.
Quarterly Report	June 28, 1990	GeoStrategies Inc.
Site Update	July 24, 1990	GeoStrategies Inc.
Site Update	October 4, 1990	GeoStrategies Inc.

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HAZARDOUS MATERIALS Site Brief for

Site Brief for UNDERGROUND TANKS for the City of Alameda

as of 12/28/90 pg 1

****** /			pg 1
UTID/	Name of Site	Cito Address	#Mowles DEDUTES.
	Hame of Sice		#Tanks PERMITS:
DITTID		· · · · · · · · · · · · · · · · · · ·	
-0- C	Arco Station #02112	1260 Park St.	5 I:09/06/88
T61043	·	Alameda , CA 94501	F:-0-
784 C	Arco Station #02035	1001 San Pablo Ave.	4 I:09/06/88
T61043		Albany , CA 94706	F:-0-
	Arco Station #04977 AM/PM		3 I:09/06/88
T61043		Castro Valley , CA 94546	F:07/05/88
	Arco Station #02152	22141 Center St.	3 I:09/06/88
T61043	Arco Station #06041	Castro Valley , CA 94546	F:-0-
T61043	AICO SCACION #00041	7249 Village Pkwy. Dublin , CA 94568	4 I:09/06/88 F:-0-
	Arco K&V Gas Foodmart	6211 San Pablo Ave.	3 I:-0-
T10115		Emeryville , CA 94608	F:-0-
	Arco Station #05387	20200 Hesperian Blvd.	4 I:09/06/88
T61043		Hayward , CA 94541	F:-0-
₩ -0- C	Airport Arco	20450 Hesperian Blvd.	3 I:02/03/89
T21120		Hayward , CA 94541	F:-0-
* 3118 C	Springtown Arco	909 Bluebell Dr.	3 I:-0-
T42311	3 Statis Nooss	Livermore , CA 94550	F:-0-
T61043	Arco Station #00771	899 Rincon Ave.	5 I:09/06/88
	Wong's Arco	Livermore , CA 94550 2032 E 12th St.	F:-0- O I:-0-
T61026	wong a Arco	Oakland , CA 94606	F:-0-
	Arco Station #02185	9800 E 14th St.	4 I:09/06/88
T61043	"01200	Oakland , CA 94603	F:-0-
1130 C	Freeway Arco	2740 - 98th Ave.	4 I:10/13/87
TA1036	_	Oakland , CA 94605	F:-0-
	Arco Station #02169	889 W. Grand Ave.	5 I:09/06/88
T61043	ginto toro grando	Oakland , CA 94607	F:-0-
-0- R	Gin's Arco Service	706 Harrison St.	0 I:-0-
	Arco Station #04494	Oakland , CA 94612 566 Hegenberger Rd.	F:-0- 3 I:02/05/88
T61043	med deadam polyg	Oakland , CA 94621	F:'-0-
	High St. Arco	2951 High St.	5 I:02/05/88
T21043	j	Oakland , CA 94619	F:-0-
-0- C	Arco Station #04931	731 W. MacArthur Blvd.	4 I:09/06/88
T61043		Oakland , CA 94609	F:-0-
	Arco Station #00276	10600 MacArthur Blvd.	3 I:09/06/88
T61043	Market de Para -	Oakland , CA 94605	F:-0-
	Mountain Blvd. Arco	2844 Mountain Blvd.	4 I:04/14/88
T41043	Argo Station #02107	Oakland , CA 94602	F:-0-
T61043	Arco Station #02107	3310 Park Blvd.	3 I:09/06/88
	Arco Station #06002	Oakland , CA 94610 6235 Seminary Ave.	F:-0- 4 I:09/06/88
T61043	med deacton #00002	Oakland , CA 94605	F:-0-
	Arco Station #06148	5131 Shattuck Ave.	3 I:09/06/88
T61043	"	Oakland , CA 94609	F:-0-
-0- C	Arco Station #00374	6407 Telegraph Ave.	3 I:09/06/88
T61043		Oakland , CA 94609	F:-0-
	Freedom Arco	15101 Freedom Ave.	3 I:-0-
-0-	ml _e	San Leandro , CA 94578	F:-0-
	Tharco	2222 Grant Ave.	1 1:08/16/88
T 2105 3	Arco Station #00608	San Lorenzo , CA 94580	F:-0-
T61043	ALCO BEACTON #00008	17601 Hesperian Blvd.	4 I:09/06/88
101043		San Lorenzo , CA 94580	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		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/IA1469		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

C=Current/Part2 Status Codes:

B=ready for Billing A=ready for Billing

M=Current/Part1

P=awaiting busPla T=Inactive

12 / Hay Super We



qeneral contractors

December 12, 1989

Department of Environmental Health

Hazardous Materials Program 80 Swan Way, Rosen 200

Oakland, California 94621

References

ARCO Service Station #4931 731 West MacArthur Boulevard Oakland, California DEC 13 1989

CUALITY CONTROL BOX

Gentlemen:

As requested by ARCO Products Company, we are forwarding a copy of the Quarterly Report, dated December 5, 1989, prepared by GeoStrategies, Inc. for the above referenced location. The report documents the quarterly groundwater sampling and site activities conducted between July-September 1989.

Please do not hesitate to call should you have any questions or comments.

Sincerely,

John P. Werfal Project Manager

c: Mr. Kylc Christie, ARCO Products Company

Mr. H. C. Winsor, ARCO Products Company

Mr. Tom Callaghan, Regional Water Quality Control Board



THE

qeneral contractors

February 11, 1988

Regional Water Quality Control Board San Francisco Bay Region 1111 Jackson Street, Room 6040 Oakland, California 94607

Attention: Mr. Greg Zentner

Reference: ARCO Service Station #4931

731 West MacArthur Boulevard

Oakland, California

Gentlemen:

As authorized by ARCO, we are forwarding a copy of the report issued by Pacific Environmental Group, dated January 20, 1988, documenting the findings of a groundwater investigation conducted at the referenced location.

Please do not hesitate to call should you have any question or comment.

John P. Werfal

JPW/ns

enclosure

cc: Mr. K. Christie, ARCO Petroleum Products Company
Ms. Liz Rose, Alameda County Environmental Health

FUEL LEAK CASE FORM

Enter Date/
Review Date 18 / 84 / 89
Review Date 18 189 Date of Last Corr. 7 14 189
Report Date/
Review Status $\underline{\mathcal{L}}$
Evaluator KAO
Sitename <u>ARCO</u>
Street Number 0407
Street TUEBRAPH
city CHKLHN//
Zip 94609 County 01
County 01
Local Agency 01000
Primary Substance
Secondary Substance
Max. Soil Conc. (ppm) 109
Max G.W. Impact (ppb) 9999999
That do not the property of th
Case Type S G D U
Groundwater Denth
Permeability 1 2 3
1 CI mousial of
Priority <u>A2</u>
Rank
Status 38
Date 3B / _/
Date 5C / /
Date 5R / /
Date 7 / /
Date 8 ////
Date 9 ////
Interim Y (N)
Interim Date/
Abate Method W7
Lead Agency (L) R LI RI
= - 1 /25/
UGT N
= - 1 /25/
UGT Division LPC
UGT N Division LPC Enforce Type 1 2 3
Enforce Type 1 2 3 Enforce Date
UGT Division Enforce Type Enforce Date Pilot Program Y N 1 2 3
Enforce Type Enforce Date Pilot Program N 1 2 3 Figure 1 2 3
UGT Division Enforce Type Enforce Date Pilot Program Y N 1 2 3

470-27th Street, Third Floor Oakland, California 94612 (415) 271-4320

April 12, 1988

CALIFORNIA REGISSIAN MATERIAL

APR 1 5 1988

QUALITY CONTROL BUARD

Arco Petroleum Products Co. 3134 Auburn Blvd. Sacramento, CA 95821 Attn: Alex E. Woelper

SUBJECT: Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report

Dear Mr. Woelper:

On March 31, 1988, our office received a report of a failed underground storage tank test from your office for the following

1. Facility #414 3000 Shattuck Ave. Berkeley, CA

2. Facility #4931 731 MacArthur Blvd. Oakland, CA

The California Administrative Code, Title 23, requires all unauthorized releases to be reported. Section 2652(b) requires within 5 working days of detecting the release, the operator or permittee shall submit to the local agency (Alameda County Hazardous Materials Division) a full written report to include all of the following information which is known at the time of filing

- 1. List of type and quantity of hazardous substances released.
- 2. The results of all investigations completed at that time to determine the extent of soil or ground water or surface water contamination due to the release.
- 3. Method of clean-up implemented to date, proposed clean-up actions, and approximate cost of actions taken to date.
- 4. Method and location of disposal of the released hazardous substance and any contaminated soils or ground water or surface water (indicate whether a hazardous waste manifest(s) is utilized).
- 5. Proposed method of repair or replacement of the primary and secondary containers.
- 6. Facility operator's name and telephone number.

GO Petroleum Products Co.

JGT Unauthorized Leak Form
April 12, 1988
Page 2 of 2

Until clean-up is complete, the operator or permittee shall submit reports to the County and the Regional Water Quality Control Board (RWQCB) every three (3) months or at a more frequent interval if specified by either agency. The reports shall include the information requested in (2), (3), and (4) of the above. The report requested above shall be prepared in accordance with the San Francisco Regional Water Quality Control Board's "Guidelines for Addressing Fuel Leaks", September 1985. The initial investigation report shall be submitted within 30 days and shall include a site

Soils contaminated at hazardous waste concentrations shall be transported by a licensed hazardous hauler and disposed of or treated at a California Department of Health Services approved facility. Soils contaminated below hazardous waste concentrations may be managed as non-hazardous but are subject to waste discharge requirements of the Regional Board.

Enclosed is an "Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report" which should be completed and returned within 5 working days. Please be advised that the City of Berkeley, Division of Environmental Health implements the State Underground Storage Tank Regulations for the City of Berkeley and are excluded from enforcement by the County.

Should you have any questions regarding this letter, please contact Lizabeth Rose, Hazardous Materials Specialist at (415) 271-4320.

Sincerely,

Rafat A. Shahid, Chief

対でからにし

Hazardous Materials Division

RAS: LR: mam

cc: Regional Water Quality Control Board Berkeley Fire Department Oakland Fire Department City of Berkeley, Environmental Health

INSTRUCTIONS

EMERGENCY

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

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) indicating cause of leak.

CASE TYPE

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

CURRENT STATUS

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

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

REMEDIAL ACTION

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

Cap Site - install horizontal impermeable layer to reduce rainfall
infiltration.

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

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water

Pump and Treat Groundwater - generally employed to remove dissolved contaminants.

Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

No Action Required - incident is minor, requiring no remedial action.

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

1. Original - Local Tank Permitting Agency

 State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. D. Box 100, Sacramento, CA 95801

3. Regional Water Quality Control Board

 County Board of Supervisors or designee to receive Proposition 65 notifications.

5. Owner/responsible party.



l		UNDERGROUND STÖRAGE TANK UNAUTHORIZE	ED RELEASE (LEAK) / CONTAMINATION SITE REPORT
		REGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO DRIT DATE CASE #	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 SAFTY CODE.
-		NAME OF INDIVIDUAL FILING REPORT KYLE CHRISTIE PHONE	SIGNED DATE 571-2434 SIGNATURE
	REPORTED BY	REPRESENTING OWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER	COMPANY OR AGENCY NAME ARCO PRODUCTS COMPANY
	96	2000 ALAMEDA DE LAS PULI	
SOMORBI E	PARTY	ARCO PRODUCTS COMPANYNKNOWN	KYLE CHRISTIE H151571-2434
BEG		2000 ALAMEDA DELAS PULO FACILITY NAME (IF APPLICABLE)	SAS SAN MATED CA 94403 OPERATOR PHONE
	ATION	ARCO STATION 4931	RAJINDER K. GOVAL (415) 658-5000 PKLAND, ALAMEDA, 94611
	SITE LOCATION	CROSS STREET TYPE OF AREA COMM	GITY COUNTY ZIP MERCIAL INDUSTRIAL RURAL TYPE OF BUSINESS RETAIL FUEL STATION
_		LOCAL AGENCY AGENCY NAME	THER FARM OTHER CONTACT PERSON PHONE
MPI EMENTING	ENCIES	ALAMEDA CO. HEALTH DEPT.	ED HOWELL (415) 874-7237
┝	-	5. F. BAY REGIONAL WATER BOARD	l
STANCES	INVOLVED	UNLEADED GASOLINE	-
Н	_		NTORY CONTROL SUBSURFACE MONITORING NUISANCE CONDITIONS
	/ABATEMENT	OM 2 M 1 D 2 D 8 Y 8 V TANK TEST TANK DATE DISCHARGE BEGAN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
	DISCOVERY	M M D D Y Y UNKNOWN HAS DISCHARGE BEEN STOPPED ?	REMOVE CONTENTS REPLACE TANK CLOSE TANK REPAIR TANK REPAIR PIPING CHANGE PROCEDURE
┢	-+	SOURCE OF DISCHARGE NO IF YES, DATE ON 3 M 0 8 0 8 V 8 V	MATERIAL CAUSE(S)
	SOURCE/CAUSE	TANK LEAK UNKNOWN GAL.	FIBERGLASS OVERFILL RUPTURE FAILURE
	3	PIPING LEAK AGE YRS	STEEL CORROSION UNKNOWN
CASE	_	CHECK ONE ONLY	OTHER SPILL OTHER
\vdash		UNDETERMINED SOIL ONLY GROUNDWATER [DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
CURRENT	STATUS	SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) NO ACTION TAKEN POST CLEANUP MONITORING IN PROGRESS	CLEANUP IN PROGRESS SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) NO FUNDS AVAILABLE TO PROCEED EVALUATING CLEANUP ALTERNATIVES
Į	_	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) CAP SITE (CD) EXCAVATE & DISPOSE (ED)	REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT)
NEO I	ACTION	CONTAINMENT BARRIER (CB) EXCAVATE & TREAT (ET)	PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)
Ľ	1	TREATMENT AT HOOKUP (HU) NO ACTION REQUIRED (NA)	OTHER (OT)
	COMMENTS	Tests showed vapor/ vent March 18,1988, retested o	line failures. Repaired on and passed on April 5, 1988.
L			

1

INSTRUCTIONS

EMERGENCY

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

LOCAL AGENCY ONLY
To avoid duplicate notification pursuant to Health and Safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

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

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

SITE LOCATION

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

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

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

DISCOVERY/ABATEMENT
Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) indicating cause of leak.

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

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

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

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.

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

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes

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Replace Supply - provide alternative water supply to affected

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident. SIGNATURE - Sign the form in the space provided.

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

Original - Local Tank Permitting Agency

 State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. 0. Box 100, Sacramento, CA 95801

Regional Water Quality Control Board

 County Board of Supervisors or designee to receive Proposition 65 notifications.

5. Owner/responsible party.

ARCO Petroleum Pr ts Company 2000 Alameda de las Pulgas Mailing Address: Box 5811 San Mateo, California 94402

Telephone 415 571 2400

October 20, 1987

Alameda County Public Health Service Division of Environmental Health 470 - 27th St., Room 322 Oakland, Ca. 94612 Attn: Mr. Ted Gerow

Re: ARCO SS#4931

731 West MacArthur Blvd./West

Oakland, Ca.

Dear Mr. Gerow:

In reviewing our records, it was unclear whether a Leak Report was ever filed for this location. Enclosed is a Report along with some additional data. A work plan will soon be forwarded for your review. In the meantime, please feel free to give me a call at (415) 571-2407 if you have any questions.

OCT 21 1987

ENVIRONMENTAL HEALTH

ADMINISTRATION

Very truly yours,

ARCO Petroleum Products Company a division of Atlantic Richfield Company

K. M. Schultheis

Gasoline Marketing Systems/Maintenance Supervisor

cc: Tom Callaghan - Regional Water Quality Control Board

KMS:cc Enclosure

	UNDERGROUND STORAGE TANK UNAUTHORIZE	ED RELEASE (LEAK) / CONTAMINATIO	N SITE REPORT					
EM	ERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED ?	FOR LOCAL AGENCY USE ONLY						
	YES A NO YES XX NO	I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT REPORTED THIS INFORMATION TO LOCAL OFFICIALS PITTE HEALTH AND SAFTY CODE.	MENT EMPLOYEE AND THAT HAVE URSUANT TO SECTION 25180.7 OF					
⊢	u 0 u 0 b 7 b 8 y 7 y NAME OF INDIVIDUAL FILING REPORT PHON	SIGNAZURE ,	DATE					
_	KAREN SCHULTHEIS 415		1. .					
<u>@</u>	REPRESENTING OWNER/OPERATOR REGIONAL BOARD	COMPANY OR AGENCY NAME	icus					
чероятер ву	LOCAL AGENCY OTHER	ARCO PETROLEUM PRODUCTS COM	MPANY					
₩	ADDRESS		94402					
	P.O. BOX 5811 STREET	CITY SAN MATEO S	STATE CA ZIP					
RESPONSIBLE PARTY	SAME AS ABOVE UNKNOWN	CONTACT PERSON	PHONE					
PAR	ADDRESS							
Ü	STREET	спу	STATE 71P					
	FACILITY NAME (IF APPLICABLE)	OPERATOR	PHONE ZIP					
₫	ARCO SERVICE STATION #4931		(415) 658-5000					
SITE LOCATION	731 WEST MACARTHUR BOULEVARD	ΛΔΚΙ ΔΝΙΤ	AL AMEDA					
SITE	CROSS STREET TYPE OF AREA XX COM	OAKLAND A	LAMEDA ZIP					
	LIFOT ATREET	OTHER FARM	SS X RETAIL FUEL STATION OTHER					
S AG	LOCAL AGENCY AGENCY NAME	CONTACT PERSON	PHONE					
MENT	ALAMEDA COUNTY HEALTH DEPARTMENT	TED GEROW	(415) 874-6434					
MPLEMENTING AGENCIES	R.W.Q.C.B SAN FRANCISCO BAY REGION	ODEC ZENTNED	PHONE					
	(1) NAME	GREG ZENTNER	(415) 464-1255 QUANTITY LOST (GALLONS)					
WED	GASOLINE - HYDROCARBON, BENZENE, TOLUENE, XYLENES X UNKNOWN							
SUBSTANCES INVOLVED	(2)							
-	DATE DISCOVERED HOW DISCOVERED		UNKNOWN					
ERY/ABATEMENT	INVE	ENTORY CONTROL SUBSURFACE MONITORING STREET	NUISANCE CONDITIONS					
E A	DATE DISCHARGE BEGAN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT AP	PLY)					
ERY	M M D D Y Y XX UNKNOWN	REMOVE CONTENTS REPLACE TANK	CLOSE TANK					
DISCOV	HAS DISCHARGE BEEN STOPPED?	REPAIR TANK REPAIR PIPING	CHANGE PROCEDURE					
	SOURCE OF DISCHARGE TANKS ONLYCAPACITY	MATERIAL CAUSE(S)						
SOURCE/CAUSE	TANKLEAK XX UNKNOWN 2-8K,1-6K,1-12Kal.	MATERIAL CAUSE(S) FIBERGLASS X OVERFILE	L RUPTURE/FAILURE					
SE E	PIPING LEAK AGE 4 - 20 YRS	STEEL CORROS						
8	X OTHER OVERFILL UNKNOWN	OTHER X SPILL	OTHER					
CASE TYPE	CHECK ONE ONLY		1348					
	UNDETERMINED SOIL ONLY X GROUNDWATER CHECK ONE ONLY	DRINKING WATER - (CHECK ONLY IF WATER WELLS H	AVE ACTUALLY BEEN AFFECTED)					
CURRENT	X SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM)	CLEANUP IN PROGRESS SIGNED OFF (CLEANUP)	COMPLETED OR UNNECESSARY)					
SE	NO ACTION TAKEN POST CLEANUP MONITORING IN PROGRESS		ATING CLEANUP ALTERNATIVES					
_	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)	<u> </u>						
REMEDIAL	CAP SITE (CD) EXCAVATE & DISPOSE (ED)	X REMOVE FREE PRODUCT (FR) HEALTHEN	· ·					
∰ &	CONTAINMENT BARRIER (CB) EXCAVATE & TREAT (ET)		EPLACE SUPPLY (RS)					
	TREATMENT AT HOOKUP (HU) NO ACTION REQUIRED (NA)	OTHER (OT)						
ZIS								
COMMENTS								
8								

INSTRUCTIONS

EMERGENCY
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LOCAL AGENCY ONLY

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DEDNOTEN RY

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

RESPONSIBLE PARTY

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SITE LOCATION

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SUBSTANCES INVOLVED

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DISCOVERY/ABATEMENT.

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) indicating cause of leak.

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CHERENT STATUS

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DEMEDIAL ACTION

Indicate which actions have been used to cleanup or remediate the leak.

Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall

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

Excavate and Dispose - remove contaminated soil and dispose in approved

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water

Pump and Treat Groundwater - generally employed to remove dissolved

contaminants.

Enhanced Biodegradation - use of any available technology to promote

bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected

Replace Supply - provide alternative water supply to affected parties.

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident. SIGNATURE - Sign the form in the space provided.

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

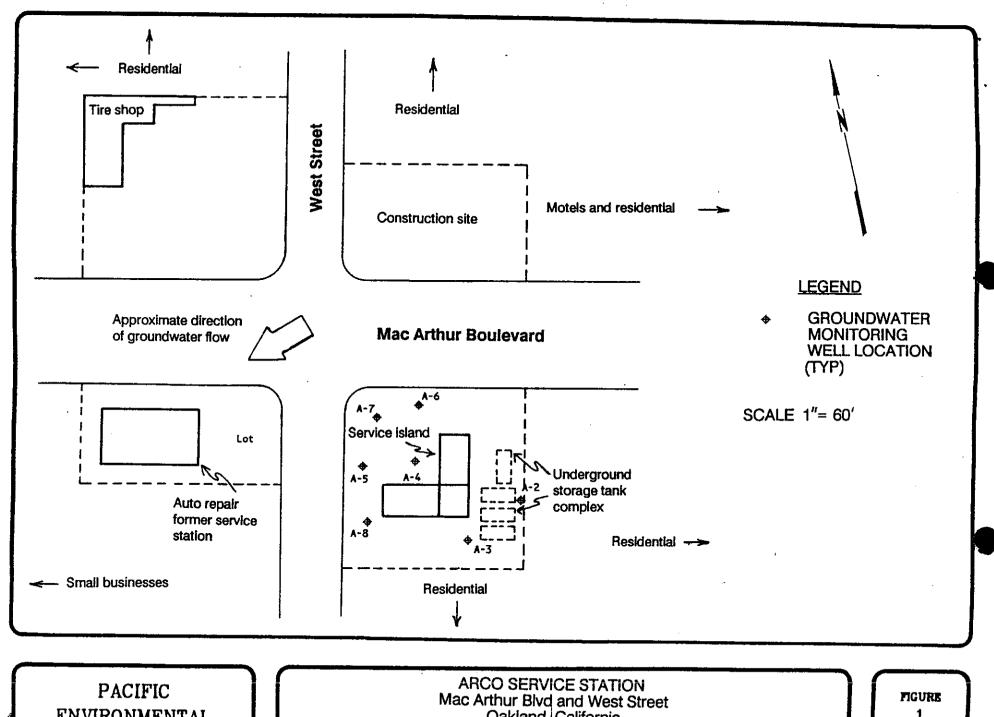
1. Original - Local Tank Permitting Agency

2. State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. O. Box 100, Sacramento, CA 95801

Regional Water Quality Control Board

 County Board of Supervisors or designee to receive Proposition 65 notifications.

5. Owner/responsible party.



ENVIRONMENTAL GROUP, INC.

Mac Arthur Blvd and West Street Oakland, California

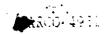
EXTENDED SITE MAP

Project No. 130-12.02

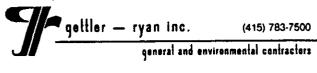


	DATE	WELL	DTH	DTW	HT	FAILED	FLOWNETER	FT-LIQ.	FT-H30	RMP	o.pley
-	05-May-37 12-May-37 12-May-37 26-May-37 02-Jun-37 09-Jun-87 16-Jun-87 07-Jul-87 23-Jul-87 23-Jul-87 25-May-87 12-May-37 12-May-37 12-May-37 02-Jun-8 02-Jun-8 02-Jun-8 02-Jun-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8 23-Jul-8	AAAAAAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBBB	7.4370 4470 7.433442447 7.7777777777777777777777777777777	(1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1	0.06	-				GE CR SCA GE GE GE GE GE GE GE GE GE GE GE GE GE	
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13-May-37 19-May+37 20-May-37 02-Jun-37 09-Jun-37 16-Jun-87 30-Jun-87 07-Jul-87 14-Jul-87 21-Jul-87	^ % % % % % % % % % % % % % % % % % % %	10.25 10.30 10.45 9.32 10.52 11.69 10.70 10.75 10.32 10.84 11.00	(1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00)	0.01 0.01 0.05 0.01 0.10 0.18 0.30 0.29 0.03 0.36 0.82						· · · · · · · · · · · · · · · · · · ·
28-Jul-87	8	10.52	(1.00)	0.32						

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ENVIRONMENTAL HEALTH ADMINISTRATION

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aan e	DATE	WELL.	отн	DTW .	HT	BATL	ED FL	.DWMETE	:RPT-L	IQ. PT-H20	EMP C.ELEV
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		··· '' ''				, <u> </u>					52.72
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	03-Mar-87 09-Mar-87 16-Mar-87 23-Mar-87 30-Mar-87 07-Apr-87	7 81 7 8 7 8 7 8	7.42 7.47 7.47 7.51 7.47	(1.00) N/A (1.00) (1.00) (1.00) (1.00)	0.03 0.01 0.02						
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	" DATE .	-WELL	DTH-		HT	BAILED	FLOWMETER	—F'T=LIQ⊤	- PT-H20	EMF	C ELEV
•		·		9.14							
	07-Apr-87			8.84	0.00						
	14-Apr-87			9.90	0.00						
	21-Apr-87			10.20	0.00		<u> </u>				
	28-Apr-87			10.40	0.00						
	26-Jan-87		10,80	(1.00)	0.06						
	02-Feb-87			(1.00)							
	09-Feb-87		10.18	(1.00)							
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	09-Mar-87		9.79	(1.00)	0.03						
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	23-Mar=87	≠ 4	9.55	(1.00)					· · · · · · · · · · · · · · · · · · ·		
	30-Mar-87	4	9,94	(1.00)							
	07-Apr-87		10.42	(1.00)							
	14-Apr-87		10.57	(1.00)							
	21-Apr-87		10.87	(1.00)							
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	07-Apr-87			10.15	0.00					· · · ·	
	14-Apr-87			10.31	0.00	*					
	21-Apr-87			10.49	0.00						
	28-Apr-87	7 5	٠	10.65	0.00						
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	07-Apr-87			9.23	0.00						
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	09-Feb-87	7 7		7.68	0.00						
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	03-Mar-87			7.47	0.00		· · · · ·				
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	16-Mar-87			6.90 7.10	0.00 . o.oo	. <u>.</u>					
	23-Har-97			7.13	- 0.00 -				***************************************		
	30-Mar-87	7 7		7.44	0.00						

DATE	WELL	- DTH	OTW	нт	EAILED	FLOWMETER	PT-LIQ.	PT-H20	EMP	C.ELEV	
07-Apr-87	7		8.02	ַ טָּטָ, טָּ			., <u></u>				-
14-Apr-87	7		8.10	0.00							
21-Apr-87	7		8.41	0.00							
28-Apr-87	7		- 8752	0.00		· -					-
26-Jan-87	8		9.94	0.00							
02-Feb-87	8 8	9.21	(1.00)	.00							
)9-Feb-87			- 9 44	01.00-						THE TAXABLE PARTY OF THE PARTY	-
23-Feb-87	8		8.38	0.00							
03-Mar-87		9.14	(1.00)	.00	,·· ,						
09-Mar-87			(1.00)	00 ·	.						
16-Mar-87			(1.00)	.00							
23-Mar-8 <mark>7</mark>	8		8,80	0.00							
30-Mar-87		9.22	(1.00)	- OŌ		. AMERICAN CONTRACTOR	.,				
07-Apr-87	3		9.72	0.00							
14-Apr-87	8		9.81	0.00							
21-Apr-87	8	<u>t</u> 0:08	· (1:00)	≕ jûû™							
28-Apr-87		10.32	(1.00)	0.01							

GETTLER-RYAN INC.

05/12/87

PAGE 3

EMCON ASSOCIATES . CHEMICAL LABORATORIES

Analysis • Consultation • Research • Environmental Studies
State Approved Water Laboratory

CERTIFIED ANALYTICAL REPORT





Report to:

Project Number: 800-32.01

Gettier Ryan 1992 National Ave. Hayward, CA 94545

Location: OAKLAND, CA

Sample Type: WATER

Units: ug/l

Sample Designation:	A02	A03	A05	A06
Field Date:	03/21/86	03/21/86	03/21/86	03/21/86
Laboratory Number:	E86-0255	E86-0255	E86-0255	E86-0255
Benzene	620	6.1	8.9	<0.50
Toluene	960	2.9	<0.50	<0.50
Xylenes and Ethylbenzene	3900	56	6.1	<4.0
Gasoline	31000	1000	88	<10
Sample Designation: Field Date: Laboratory Number:	A07 03/21/86 E86-0255			
Benzene Toluene Xylenes and Ethylbenzene Gasoline	<0.50 <1.0 <4.0 <10			

Page 1

Reported by Philip Murphy

Date: 3-28-86

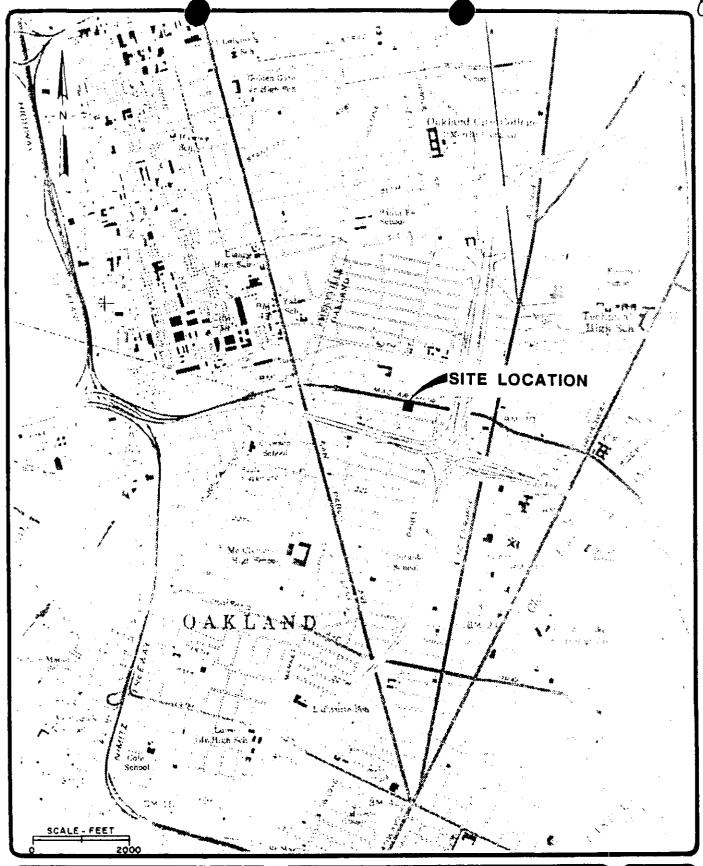
Table 2 DISSOLVED GASOLINE CONCENTRATIONS FLOATING PRODUCT THICKNESSES March 21, 1986

Monitoring Well	Dissolved Gasoline Concentration (ug/l)	Floating Product (ft)
A-2	31,000	
A-3	1,000	
A-4		3.5
A-5	88	.
A-6	nd	
A-7	nd	
A-8		0.02

Gasoline concentrations in micrograms per liter (ug/l) or parts per billion.

nd = none detected

Detection limit = 10 ug/l



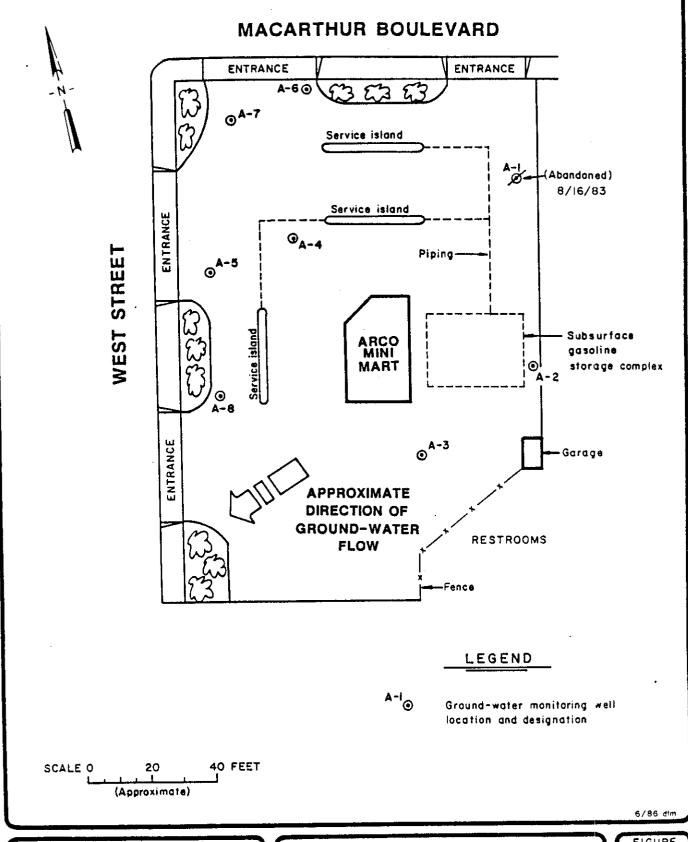


GETTLER-RYAN INC.
REMEDIAL ACTION INVESTIGATION
ARCO STATION, 731 W. MACARTHUR
OAKLAND, CALIFORNIA

LOCATION MAP

FIGURE

PROJECT NO
800-32.01



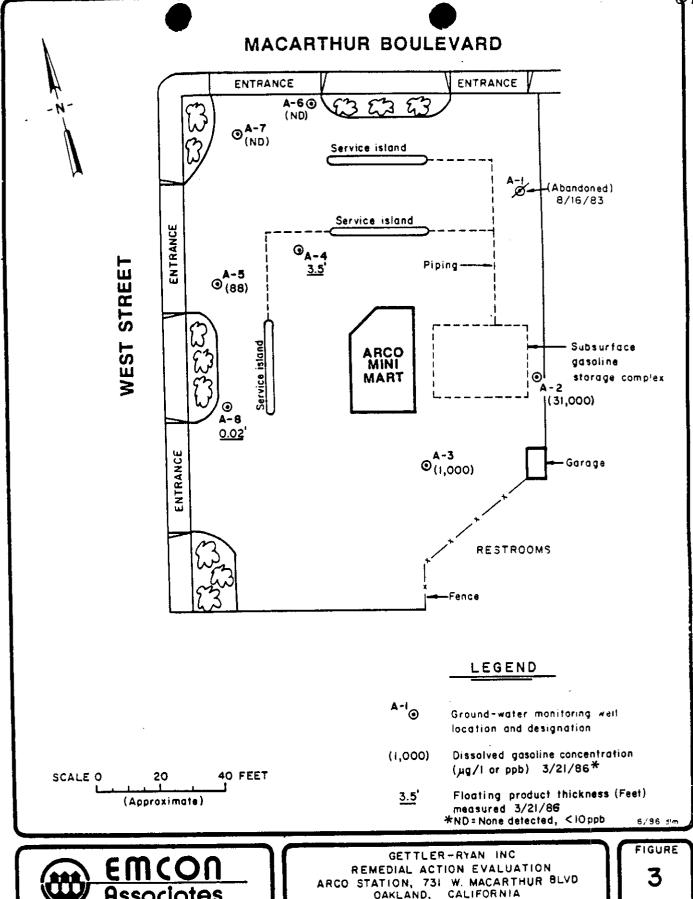


GETTLER-RYAN INC REMEDIAL ACTION EVALUATION ARCO STATION, 731 W. MACARTHUR BLVD OAKLAND, CALIFORNIA

SITE PLAN

FIGURE 2

HOU-32.01

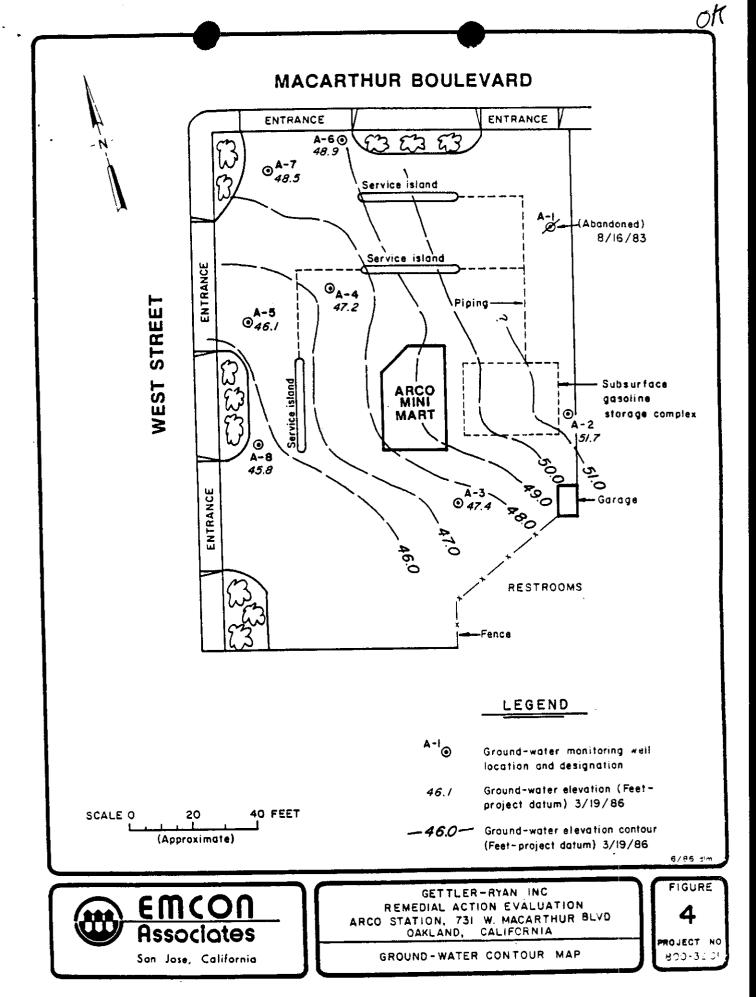


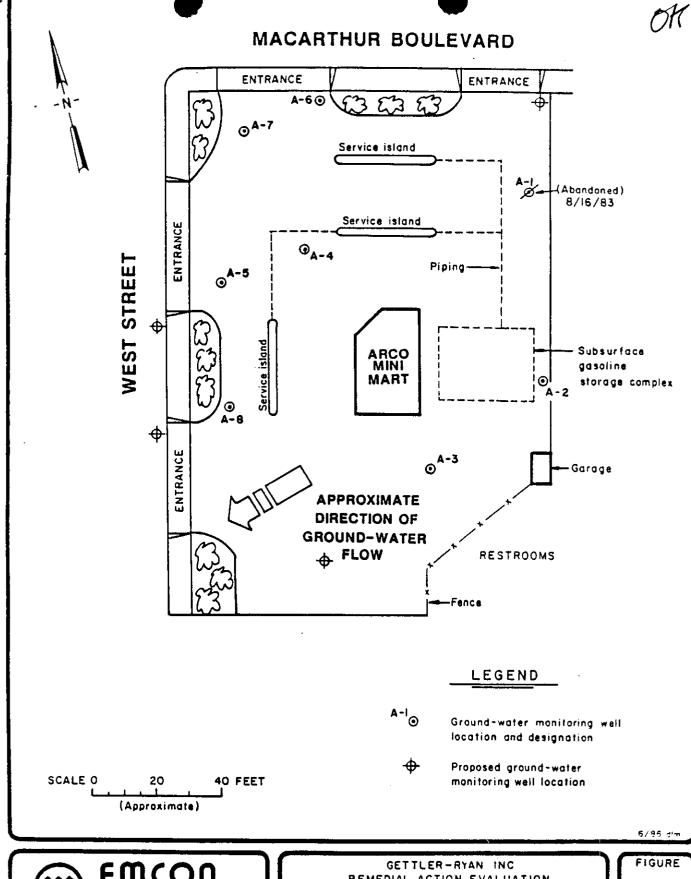


OAKLAND, CALIFORNIA

PRODUCT DISTRIBUTION

ROJECT NO 800-340I







San Jose, California

GETTLER-RYAN INC
REMEDIAL ACTION EVALUATION
ARCO STATION, 731 W. MACARTHUR BLVD
OAKLAND, CALIFORNIA

PROPOSED WELL LOCATION MAP

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PROJECT NO