



December 8, 2003

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

Alameda County
DEC 09 2003
Environmental Health

**Re: Fourth Quarter 2003 Status Report
ARCO Service Station # 0771
899 Rincon Avenue
Livermore, California
URS Project #38486316**

Dear Mr. Seery:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2003 Status Report* for the ARCO Service Station #0771, located at 899 Rincon Avenue, Livermore, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Enclosure: Fourth Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570
Mr. John Kaiser, RWQCB SF Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Mr. Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA.
94566

Date: December 8, 2003
Quarter: 4Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.: 2112 Address: 1260 Park Street, Alameda, California
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486322
Primary Agency: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Fourth – 2003):

1. No environmental work was conducted at the site during the fourth quarter 2003.
2. Prepared and submitted fourth quarter 2003 status report.
3. Waited on response to closure update letter dated July 30, 2003

WORK PROPOSED FOR NEXT QUARTER (First – 2004):

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



December 8, 2003

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

**Re: Fourth Quarter 2003 Status Report
ARCO Service Station #2112
1260 Park Street
Alameda, California
URS Project #38486322**

Dear Mr. Gholami:

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

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Enclosure: Fourth Quarter 2003 Status Report

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

Date: December 8, 2003
Quarter: 4Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.: 0771 Address: 899 Rincon Avenue, Livermore, California
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486316
Primary Agency: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Fourth – 2003):

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

WORK PROPOSED FOR NEXT QUARTER (First – 2004):

1. Perform first semi-annual 2004 groundwater monitoring event.
2. Prepare and submit first semi-annual 2004 groundwater monitoring report.



Facsimile

Date: 07/16/03 Page 1 of: 3
 To: Ms. Donna Drogos From: Srijesh Thapa
 Firm: Alameda County Health Care Services Agency cc: _____
 Facsimile: 510-337-9335
 Subject: Well completion report release agreement form

Message:

Ms. Drogos:

Ms. Eva Chu directed me to contact you with all issues regarding ARCO Service Station #0771 located at 899 Rincon Avenue, Livermore, CA 94550. URS is currently putting together a sensitive receptor survey report for the respective Site. As you are aware, as part of this effort, it is necessary to request well completion reports from the Department of Water Resources and your agency's authorization is required for URS to have access to the respective reports. Would appreciate it if you could kindly sign the attached form where necessary and fax this to me at 510-874-3268. I have also attached the site location map for your convenience. If you have any questions, please contact me at 510-874-3010.

Your time and assistance are much appreciated.

Thank you,

Srijesh Thapa
 Srijesh Thapa
 Environmental Scientist
 URS Corporation

Post-It™ brand fax transmittal memo 7671 # of pages ▸ 2

To	S. THAPA	From	D. DROGOS
Co.	URS	Co.	ACEIA
Dept.		Phone #	510-527-6761
Fax #	510-874-3268	Fax #	510-337-9335

URS Corporation
 500 12TH Street, Suite 200
 Oakland, CA 94607-4014
 Tel: 510.893.3600
 Fax: 510.874.3288
 www.urscorp.com

CONFIDENTIALITY NOTICE
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STATE OF CALIFORNIA - THE RESOURCES AGENCY

GRAY DAVIS, Governor

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 S Street
Sacramento, CA 95816
(916) 227-7832
(916) 227-7800(Fax)

NORTHERN DISTRICT
2440 Main Street
Red Bluff, CA 96080
(530) 529-7300
(530) 529-7322 (Fax)

SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93728
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-4800
(818) 543-4804 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT--AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. 1/2 MILE RADIUS WELL SURVEY County ALAMEDA
ARCO SERVICE STATION #0771, 899 LINCOLN AVENUE, LIVERMORE, CA 94550

Township, Range, and Section T.3.S. (TOWNSHIP), R.2.E (RANGE) Radius 1/2 MILE
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

Make a study, or,

Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

URS CORPORATION
Authorized Agent

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
Government or Regulatory Agency

500, 12TH STREET, SUITE 200
Address

1131 TARBOR BAY PARKWAY, SUITE 250
Address

OAKLAND, CA 94607
City, State, and Zip Code

ALAMEDA, CA 94502
City, State, and Zip Code

Signature *Srijesh Thapa*

Signature *Paul J. Drago*

Title ENVIRONMENTAL SCIENTIST

Title SUPERVISING HHS

Telephone (570) 878-3010

Telephone (510) 567-6721

Fax (570) 878-3268

Fax (510) 337-9335

Date 08/07/03

Date 07/17/03

E-mail SRITESH-TNAPA@URSCORP.COM

E-mail ddragos@co.alameda.ca.us

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
942	510 874 3268	07-17 16:47	00' 49	02/02	OK		

7499402046

JUL-16-2003 12:36

URS CORPORATION

5109850517 P.01/03

URS

Facsimile

Date: 07/16/03 Page 1 of: 3
 To: Ms. Donna Drogos From: Srijesh Thapa
Alameda County Health Care Services
 Firm: Agency cc:
 Facsimile: 510-337-9335
 Subject: Well completion report release agreement form

Message:

Ms. Drogos:

Ms. Eva Chu directed me to contact you with all issues regarding ARCO Service Station #0771 located at 899 Rincon Avenue, Livermore, CA 94550. URS is currently putting together a sensitive receptor survey report for the respective Site. As you are aware, as part of this effort, it is necessary to request well completion reports from the Department of Water Resources and your agency's authorization is required for URS to have access to the respective reports. Would appreciate it if you could kindly sign the attached form where necessary and fax this to me at 510-874-3268. I have also attached the site location map for your convenience. If you have any questions, please contact me at 510-874-3010.

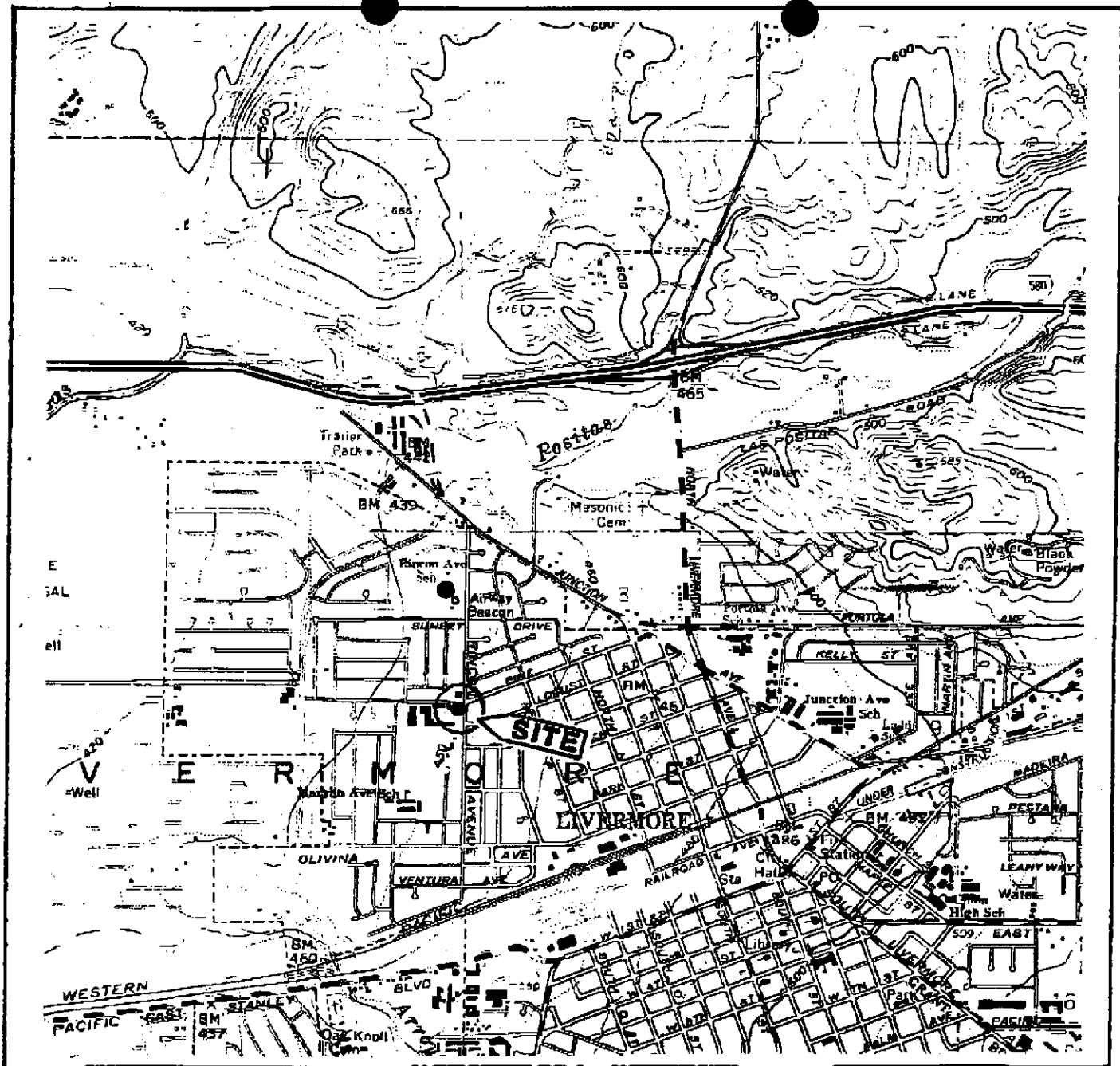
Your time and assistance are much appreciated.

Thank you,

Srijesh Thapa
 Srijesh Thapa
 Environmental Scientist
 URS Corporation

Post-It™ brand fax transmittal memo 7671 # of pages > 2

To	S. THAPA	From	D. DROGOS
Co.	URS	Co.	ACEH
Dept.		Phone #	510-527-6761



Source: U.S. Geological Survey
 7.5-Minute Quadrangle
 Livermore, California
 Photorevised 1980



Approximate Scale



SITE VICINITY MAP
ARCO Station 771
899 Rincon Avenue
Livermore, California

PLATE

1

TOTAL P.03

URS**Facsimile**

Date: 07/10/03 Page 1 of: 3
To: Ms. Eva Chu From: Srijesh Thapa
Firm: Alameda County Health Care Services
Agency cc: _____
Facsimile: 510-337-9335
Subject: Well completion report release agreement

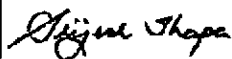
Message:

Ms. Chu:

URS is currently putting together a sensitive receptor survey report for ARCO Service Station #0771 located at 899 Rincon Avenue, Livermore, CA 94550. As you are aware, as part of this effort, it is necessary to request well completion reports from the Department of Water Resources and your agency's authorization is required for URS to have access to the respective reports. Would appreciate it if you could kindly sign the attached form where necessary and fax this to me at 510-874-3268. I have also attached the site location map for your convenience. If you have any questions, please contact me at 510-874-3010.

Your time and assistance are much appreciated.

Thank you,



Srijesh Thapa
Environmental Scientist
URS Corporation

URS Corporation
500 12TH Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268
www.urscorp.com

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DEPARTMENT OF WATER RESOURCES

GRAY DAVIS, Governor

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SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93726
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-1600
(818) 543-4804 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT--AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. 1/2 MILE RADIUS WELL SURVEY County ALAMEDA
ARCO SERVICE STATION #0771, 829 RINCON AVENUE, LIVERMORE, CA 94550

Township, Range, and Section T.3.S. (TOWNSHIP), R.2.E (RANGE) Radius 1/2 MILE
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

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Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

URS CORPORATION
Authorized Agent

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
Government or Regulatory Agency

500, 12TH STREET, SUITE 200
Address

1131 HARBOUR BAY PARKWAY, SUITE 260
Address

OAKLAND, CA 94607
City, State, and Zip Code

ALAMEDA, CA 94502
City, State, and Zip Code

Signature Srijesh Thapa

Signature _____

Title ENVIRONMENTAL SCIENTIST

Title _____

Telephone (510) 875-3010

Telephone () _____

Fax (510) 875-3268

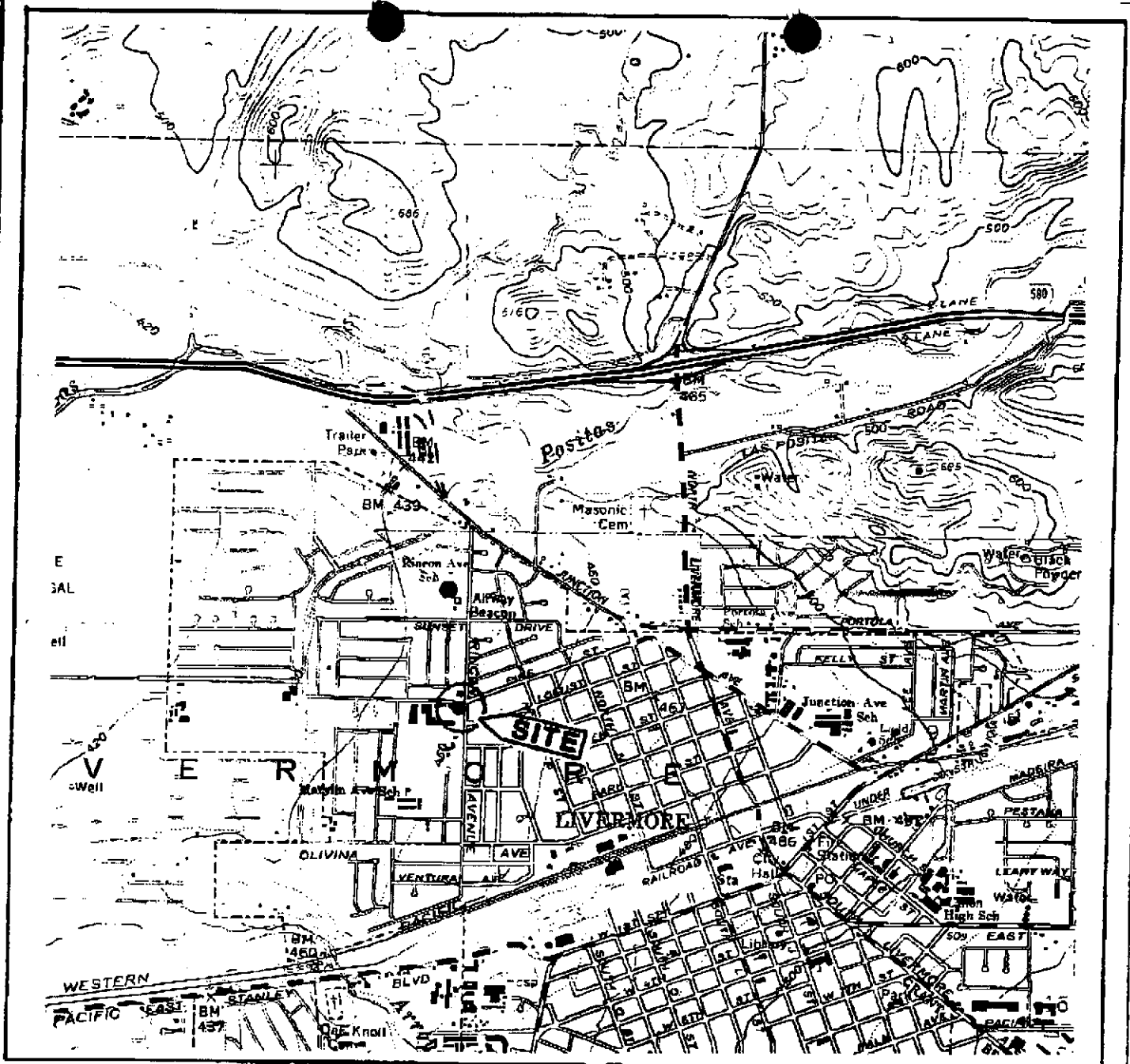
Fax () _____

Date 07/07/03

Date _____

E-mail SRIJESH-THAPA@URSCORP.COM

E-mail _____



**Source: U.S. Geological Survey
7.5-Minute Quadrangle
Livermore, California
Photorevised 1980**



Approximate Scale



**SITE VICINITY MAP
ARCO Station 771
899 Rincon Avenue
Livermore, California**

**PLATE
1**



June 13, 2003

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

Alameda County
JUN 18 2003
Environmental Health

**Re: Second Quarter 2003 Status Report
ARCO Service Station # 0771
899 Rincon Avenue
Livermore, California
URS Project #38486090**

Dear Ms. Chu:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Second Quarter 2003 Status Report* for the ARCO Service Station #0771, located at 899 Rincon Avenue, Livermore, California.

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

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Enclosure: Second Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570
Mr. John Kaiser, RWQCB SF Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Mr. Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA.
94566

Alameda County
JUN 18 2003
Environmental Health

Date: June 13, 2003

Quarter: 2Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.: 0771 Address: 899 Rincon Avenue, Livermore, California
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson / (510) 874-3280
Consultant Project No.: 38486090
Primary Agency: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Second – 2003):

1. No environmental work was conducted at the site during the second quarter 2003.
2. Prepared and submitted first semi-annual 2003 groundwater monitoring report.
3. Prepared and submitted second quarter 2003 status report.

WORK PROPOSED FOR NEXT QUARTER (Third – 2003):

1. Perform second semi-annual 2003 groundwater monitoring event.
2. Prepare second semi-annual 2003 groundwater monitoring report.

Alameda County October 25, 2002

NOV 06 2002

Environmental Health

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Quarterly Status Report**
Second Quarter 2002
ARCO Service Station No. 771
899 Rincon Avenue
Livermore, CA
URS Project # 38465892

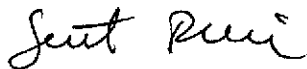
Dear Ms. Chu:

On behalf of ARCO (affiliated to Group Environmental Management Company), URS Corporation (URS) is pleased to submit the Quarterly Status Report. This report presents the second quarter 2002 status report of ARCO Service Station No. 771 located at 899 Rincon Avenue, Livermore, CA.

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

Sincerely,

URS CORPORATION



Scott Robinson
Project Manager



Amy Breckenridge
Portfolio Manager

Attachments: Quarterly Status Report, Second Quarter 2002

cc: Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570
Danielle Stefani, City of Livermore Fire Dept., 4550 East Avenue, Livermore, CA 94550



Date: October 25, 2002

ARCO SECOND QUARTER 2002 STATUS REPORT

Station No.: 771 Address: 899 Rincon Avenue, Livermore, CA
ARCO Environmental Engineer/Phone No.: Paul Supple / (925) 299-8891
Consulting Co./Contact Person/Phone No.: URS Corporation / Scott Robinson / (510) 893-3600
Consultant Project No.: 38465892
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Second - 2002)

1. Previous consultant submitted quarterly groundwater monitoring report for first quarter 2002.
2. No other environmental work was conducted at the site during the second quarter 2002.

WORK PROPOSED FOR NEXT QUARTER (Third - 2002)

1. The annual monitoring event for the site is expected to take place during the third quarter 2002.
2. URS Corporation took over groundwater monitoring activities from Cambria Environmental Technology, Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

StID 3873

July 7, 2000

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

RE: Arco Service Station 0771, 899 Rincon Avenue, Livermore, CA

Dear Mr. Supple:

I am the new case worker for the above referenced site. I have completed review of the case file and recommend the following changes to the groundwater monitoring schedule:

- sample on a semi-annual basis Wells MW-4, MW-6, MW-7, RW-1, and VW-1 (these wells are most appropriately screened at this time)
- sample on an annual basis (3rd quarter) Wells MW-2, MW-5, MW-11, and
- discontinue sampling of Wells MW-1, MW-3, MW-8, MW-9, and MW-10

At this time, it appears appropriate to review the case to determine if it is a low risk groundwater case. Please have your consultant prepare a site conceptual model for the site where all potential risks to human health and the environment are evaluated. Site specific target levels for chemicals of concern can then be established for the site. Concentration versus time versus depth to water graphs should be prepared to determine if the contaminant plume is stable or decreasing. Please use the RWQCB's January 1996 "Interim Guidance on Required Cleanup at Low Risk Fuel Sites" to determine if your site falls into the low risk groundwater category.

If you have any questions, I can be reached at (510) 567-6762.

Eva Chu
Hazardous Materials Specialist

c: Glen Van der Veen, IT Group, 2201 Broadway, Suite 101, Oakland, CA 94612

LOP - RECORD CHANGE REQUEST FORM

printed:
04/20/2000

Mark Out What Needs Changing and Hand to LOP Data Entry
(Name/Address changes go to Annual Programs Data Entry)

Insp: *JP*
8H

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 3873 LOC:
SITE NAME: Arco Station #00771 DATE REPORTED : 08/24/1987
ADDRESS : 899 Rincon Ave DATE CONFIRMED:
CITY/ZIP : Livermore 94550 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: W CONTRACT STATUS: 4 PRIOR CODE:2B4 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 10/21/1992
PRELIMINARY ASMNT: DATE UNDERWAY: DATE COMPLETED:
REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 6 DATE ENFORCEMENT ACTION TAKEN: 10/21/1992
LUFT FIELD MANUAL CONSID: 3HSCAWG
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 12/30/1991 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Paul Supple
COMPANY NAME: Arco Products Company
ADDRESS: P. O. Box 6549
CITY/STATE: Moraga, C A 94549

INSPECTOR VERIFICATION:					
NAME	SIGNATURE			DATE	
DATA ENTRY INPUT:					
Name/Address Changes Only			Case Progress Changes		
ANPPGMS	LOP	DATE	LOP	DATE	

Listing of HAZMAT - FULL SITE HISTORY since 1987 for StID # 3873
as of 04/20/2000 all Activity Codes

SITE NAME & ADDRESS:

Arco Station #00771 -- 899 Rincon Ave , Livermore CA 94550

InspDat Insp Act InspT StID Proj# COMMENTS DailBDat
=====

Archived Dailies:

InspDat	Insp Act	InspT	StID	DRPro	Comment	DailBDat
05/07/1991	SH 45	1.	3873	3049A	Review Plans	*****
05/07/1991	SH 45	1.	3873	3049A	Review installation plan	*****
08/26/1991	SH 45	0.5	3873	3049A	Review closure plan	*****
09/12/1991	SH 45	0.5	3873	3049A	Draft closure letter	*****
09/12/1991	SH 45	0.5	3873	3049A	Draft letter	*****
09/16/1991	SH 45	0.5	3873	3049A	Letter to consultant	*****
09/16/1991	SH 45	0.5	3873	3049A	Closure letter to consultant	*****
11/12/1991	SH 45	0.75	3873	3049A	899 Rincon Ave., Livermore 94550 ARCO review additional info on installtion plan	*****
11/12/1991	SH 45	0.75	3873	3049A	899 Rincon Ave., Livermore 94550 ARCO review additional info on removal	*****
12/30/1991	SH 42	3.5	3873	3049A	Tank pulled	*****
01/02/1992	SH 77	0.5	3873	3049A	899 Rincon Ave., Livermore 94550 ARCO Phone consultation with Valerie Vorunganti	-0-
01/03/1992	SH 45	0.5	3873	3049A	on site visit	*****
01/03/1992	SH 73	1.5	3873	3049A	899 Rincon Ave., Livermore 94550 ARCO Site visit, shoring excavation pit.	-0-
01/06/1992	SH 75	1.	3873	3049A	899 Rincon Ave.,Livermore ARCO - review VET results , soil analyses results from tank removal & 3rd QR 1991.	-0-
01/06/1992	SH 77	1.	3873	3049A	review vet test re: soil	*****
01/07/1992	SH 45	1.5	3873	3049A	draft letter	*****
01/07/1992	SH 74	1.5	3873	3049A	899 Rincon Ave. Livermore 94550 ARCO letter out	-0-
01/15/1992	SH 77	0.5	3873	3049A	899 Rincon Ave. ARCO Livermore - Discussionwith Eddy So & Mark T.	-0-
01/16/1992	SH 45	2.	3873	3049A	meet w/RWQCB	*****
01/16/1992	SH 77	2.25	3873	3049A	899 Rincon Ave. Livermore 94550 ARCO - meeting with Eddy So (RWQCB) updates on site.	-0-
01/17/1992	SH 77	1.75	3873	3049A	899 Rincon Ave. Livermore 94550 ARCO- meeting with Eddy So (RWQCB), ARCO (Kyle Christie, Charles Carmel) & consultants	-0-
01/21/1992	SH 73	1.	3873	3049A	899 Rincon Ave. Livermore 94550 ARCO - sampling excavation pit, bottom samples excavation shored.	-0-
01/22/1992	SH 45	5.	3873	3049A	on site installation	*****
02/07/1992	SH 73	2.	3873	3049A	899 Rincon Ave. Livermore 94550 ARCO - Soil sampling.	-0-
02/07/1992	SH 77	1.5	3873	3049A	pipe tank removal	*****
02/26/1992	SH 41	2.	3873	3049A	899 Rincon Ave. Livermore 94550	-0-

					ARCO	primary piping soap		
					test			
02/27/1992	SH	45	2.	3873	3049A	primary piping test	*****	
02/28/1992	SH	41	1.5	3873	3049A	899 Rincon Ave. Livermore 94550	-0-	
						-ARCO secondary piping soap		
						test.		
03/02/1992	SH	75	2.	3873	3049A	-0-	*****	
03/28/1992	SH	45	1.25	3873	3049A	secondary pipe test	*****	
03/30/1992	SH	41	2.5	3873	3049A	899 Rincon Ave. Livermore 94650	*****	
						ARCO Final Inspection for		
						new tanks		
03/30/1992	SH	45	2.5	3873	3049A	Leak monitor inspection	*****	
03/31/1992	SH	75	2.5	3873	3049B	899 Rincon Ave. Livermore 94650	*****	
						- review VET, Workplan, RAP		
04/01/1992	SH	77	1.	3873	3049	899 Rincon Ave. Livermore 94560	-0-	
						- Phone consultation with		
						RESNA & RWQCB (Eddy So)		
04/06/1992	SH	77	0.5	3873	3049A	899 Rincon Ave. Livermore 94560	*****	
						- phone discussion with		
						consultant		
04/07/1992	MT	410	3.	3873	-0-	-0-	-0-	
04/08/1992	EC	200	0.8	3873	-0-	transfer to LOP and notification	-0-	
						letter		
05/07/1992	JS	32	1.	3873	-0-	Arco inspection 899 Rincon.	-0-	
						Called in an unauthorized leak.		
						Oozing only.		
05/07/1992	SH	45	1.	3873	3049A	TELEPHONE CONFERENCE RE:	*****	
						UNAUTHORIZED REL.		
05/15/1992	TP	206	0.5	3873	-0-	w/Scott, Susan	-0-	
05/15/1992	SH	215	0.5	3873	-0-	review case	-0-	
05/18/1992	SH	206	1.	3873	-0-	-0-	-0-	
05/27/1992	SH	215	1.5	3873	-0-	-0-	-0-	
06/10/1992	TP	215	0.1	3873	-0-	for Susan	-0-	
08/31/1992	SH	212	0.5	3873	-0-	talked to Joel Coffman re:	-0-	
						meeting Sept 30,1992 to discuss		
						time lines & off site		
						wellsinstallation approval from		
						Rich Rathbum		
09/25/1992	SH	212	0.5	3873	-0-	talked to Rick Rathburn (owner	-0-	
						of neighbo-ring property) re:		
						access to install MWS.		

Current Dailies:

InspDat	Insp	Act	InspT	StID	DRPro	Comment	DailBDat
-----	-----	-----	-----	-----	-----	-----	-----
02/03/1997	RW	31	2.5	3873	3049	inspection of usts, four dw frp,	
						dw pressure lines, paperwork	
						issues and wet piping sump	
02/10/1997	RW	33	1.	3873	3049	site visit to determine if	
						records for tank and piping	
						monitoring are current. Reviewed	
						docs in office, appear to be ok.	
03/24/1997	RW	35	0.25	3873	30495	review process started in order	
						to prepare permit	
04/02/1997	RW	130	1.5	3873	3049	new permit and SAD	
12/02/1997	TP	200	0.1	3873	30493	update contact	
02/04/1998	SH	200	0.8	3873	3049A	Review qmr	
06/08/1998	SH	200	0.5	3873	3049A	Reviewed QMR = inquiry re: off	
						site migration onto 850 Rincon	
						St (Bobbi Collin).	

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
DEPOSIT / REFUND ACCOUNT SHEET

printed 04/22/97

SITE INFORMATION

Arco Station #771
899 Rincon Ave
Livermore 94550
Site Contact: Jerry Shields
Site Phone : 447-1329

StID: 3873 Site#: 3049
PROJECT#: ~~3049A~~
PROJECT TYPE:*** I ***
INSP: Susan Hugo
ACCT. SHEET PG #: _____

PROPERTY OWNER INFORMATION

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

PAYOR INFORMATION

Atlantic Richfield Co.
P. O. Box 711512
Los Angeles CA 90017 # 533
Payor Contact:
Payor Phone :

Date	Action Taken	Insp Init	Hours Spent/ Depstd	Hour Balnce	Money Spent/ Depositd	Money Balance
	Rcpt# 592427					
	Balance from Prev. Page					
4/22/97	current acct balance					326.75
	negative balance carry over project 3049 B				-245.00	81.75
5/7/92	telcons re: unauthorized release JS			1.0	71.-	10.75
Dep Ref Closed LOP						

UPON COMPLETION OF PROJECT

PROJ COMPLETED BY : Paul M. Hise ATTACH: State Forms A, B & C
 Billing Adjustment*
DATE OF COMPLETION : 4/22/97 DATE SENT TO BILLING: 4/22/97
TOTAL COST OF PROJECT: 2137.25 REFUND AMOUNT: 10.75 Rev. 7/96

* Billing adjustment forms needed when site is in our UST program.

Listing of Archived HAZMAT DAILY activities since 1987 for StID # 3873
as of 04/22/97 all Activity Codes

SITE NAME & ADDRESS:

Arco Station #00771 -- 899 Rincon Ave , Livermore CA 94550

InspDat	Insp Act	InspT	StID	Proj#	COMMENTS	DailBDat
Archived Dailies:						
InspDat	Insp Act	InspT	StID	DRPro	Comment	DailBDat
11/12/91	SH	45	0.75	3873	3049A	899 Rincon Ave., Livermore 94550
						ARCO review additional info on installtion plan
11/12/91	SH	45	0.75	3873	3049A	899 Rincon Ave., Livermore 94550
						ARCO review additional info on removal
12/30/91	BO	42	1.75	3873	3049A	ARCO at 899 Rincon Livermore
						with S Hugo, our office, tank pull & met with Danielle S
04/07/92	MT	410	3.	3873		
04/08/92	EC	200	0.8	3873		
						transfer to LOP and notification letter
						Arco inspection 899 Rincon.
						oozing only.
05/15/92	TP	206	0.5	3873		w/Scott, Susan
05/15/92	SH	215	0.5	3873		review case
05/18/92	SH	206	1.	3873		
05/27/92	SH	215	1.5	3873		
06/10/92	TP	215	0.1	3873		for Susan
08/31/92	SH	212	0.5	3873		talked to Joel Coffman re: meeting Sept 30,1992 to discuss time lines & off site wellsinstallation approval from Rich Rathbum
09/25/92	SH	212	0.5	3873		talked to Rick Rathburn (owner of neighbo-ring property) re: access to install MWS.

Current Dailies:

InspDat	Insp Act	InspT	StID	DRPro	Comment	DailBDat
02/03/97	RW	31	2.5	3873	3049	inspection of usts, four dw frp, dw pressure lines, paperwork issues and wet piping sump
02/10/97	RW	33	1.	3873	3049	site visit to determine if records for tank and piping monitoring are current. Reviewed docs in office, appear to be ok.
03/24/97	RW	35	0.25	3873	30495	review process started in order to prepare permit
04/02/97	RW	130	1.5	3873	3049	new permit and SAD

Complete

Printed: 04/22/97

***** Alameda County Department of Environmental Health *****
BILLING's Total Deposit/Refund History for All Accounts at Site

** SITE INFORMATION **

Site#: 3049 -- StID: 3873 AM/PM MINI MARKET #771
Date Open: 01/14/91 899 RINCON AVENUE
Date Closed: LIVERMORE CA 94550

** PAYOR INFORMATION **

> Project # --3049B for Payor # 359 RESNA
3315 Almaden Expwy #34
San Jose CA 95118

> Project # --3049A for Payor # 533 ATLANTIC RICHFIELD COMPANY
P.O. BOX 2570
LOS ANGELES CA 90051

** DEPOSIT HISTORY **

Proj#	Deposit Date	Receipt#	Amount Received
--3049A	05/01/91	592426	\$ 1,074.00
--3049A	05/01/91	592427	\$ 1,074.00
=====			
--3049b	01/14/91	577188	\$ 2,148.00
			\$ 500.00
=====			
			\$ 500.00

** WORKLOG HISTORY **

Proj#	Work Date	Activity Description	Insp	Time (hrs)	Amt Charged
--3049a	05/07/91	review plans		0.5	\$33.50
--3049a	05/07/91	review plans		1.	\$67.00
--3049a	08/26/91	review closure plan		0.5	\$33.50
--3049a	08/26/91	error charge**			-\$33.50
--3049a	08/26/91	review installation plan		1.	\$67.00
--3049a	09/12/91	draft closure letter		0.5	\$33.50
--3049a	09/12/91	draft letter		0.5	\$33.50
--3049a	09/16/91	letter to consultant		0.5	\$33.50

--3049a	09/16/91	closure letter/consult	0.5	\$33.50
--3049a	11/12/91	review installation plan	0.75	\$50.25
--3049a	11/12/91	review closure plan	0.75	\$50.25
--3049a	12/30/91	Tank pulled	3.5	\$234.50
--3049a	01/03/92	On-site visit	0.5	\$33.50
--3049a	01/06/92	review VET test re:soil	1.	\$67.00
--3049a	01/07/92	draft letter	1.5	\$100.50
--3049a	01/16/92	meet w/RWQCB	2.	\$134.00
--3049a	01/22/92	on site installation	5.	\$335.00
--3049a	02/07/92	pipe tank removal	1.5	\$106.50
--3049A	02/27/92	PRIMARY PIPING TEST	2.	\$142.00
--3049a	03/28/92	secondary pipe test	1.25	\$88.75
--3049a	03/30/92	leak monitor inspection	2.5	\$177.50

				\$1,821.25

Balance: \$326.75

Amount Refunded:

Proj#	Work Date	Activity Description	Insp	Time (hrs)	Amt Charged
-----	-----	-----	-----	-----	-----
--3049b	12/27/90	File Review		1.25	\$75.00

Pg 1

ALAMEDA COUNTY ENVIRONMENTAL HEALTH - HAZARDOUS MATERIALS PROGRAM
 INFORMATION PER SITE ON ALL DEPOSITS FROM ALL PAYORS

as of 04/22/97

DATABASE: DEPREF

===== SITE INFORMATION from DepRef DB =====

Arco Station #771
 899 Rincon Ave
 Livermore CA 94550

StID: 3873 Site#: 3049 Site Complete?
--

===== ALL PAYORS ON SITE =====

- > Project# 3049B for Payor# 359 Resna, Inc.
 3315 Almaden Expwy #34
 San Jose CA 95120
- > Project# 3049A for Payor# 533 Atlantic Richfield Co.
 P. O. Box 711512
 Los Angeles CA 90017

DR:WkShtPay

===== DEPOSIT INFORMATION =====

Project#	Rcpt#	DepDate	DepAmount	Proj Type	Deposit Complete	Insp Init	Collect Fees?
3049A	<-----						
	592426	05/01/91	\$1,074.00	R		SH	
	592427	05/01/91	\$1,074.00	I		SH	
	Total Deposit for Project:		\$2,148.00				
3049B	<-----						
	577188	01/14/91	\$500.00	M		GW	
	Total Deposit for Project:		\$500.00				

Total Deps for all Sites :			\$2,648.00				

Report WkShtDep Complete; 3/97

LAST WORK DATE FROM BILLING ON THIS SITE:

**** WORKLOG HISTORY ****

--3049b	03/21/91	file review/letter	3.	\$201.00
--3049b	04/16/91	review report/tank test	1.5	\$100.50
--3049b	05/30/91	review workplan/ltr.	1.5	\$100.50
--3049b	08/16/91	review quarterly rpt/ltr	1.	\$67.00
--3049b	08/19/91	Letter	1.	\$67.00
--3049b	12/13/91	review rpt.re:monitor	2.	\$134.00

				\$745.00

Balance: -\$245.00

Amount Refunded:

=====

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

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

FAX COVER SHEET

DATE: August 16, 19 95

TO: MICHAEL WHELAND

ARCO

FAX # (408) 377-8361

Total number of pages including cover sheet 2

FROM: SUSAN HUGO

NOTE:

Per your request.

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

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

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

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

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

FAX COVER SHEET

DATE: June 27, 1995

TO: DAVID LARSON

FAX # (408) 453-0452

Total number of pages including cover sheet 2

FROM: SUSAN L. HUGO

NOTE:

LIST of ARCO SITES & corresponding
contact person

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

(6/27/95)

LIST OF ARCO SITES WITH UGT CLEANUP

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

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

ALCO
HAZMAT



96 SEP 13 PM 2:14
September 9, 1994

Ms. Susan Hugo
Alameda County 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

ALAMEDA COUNTY HEALTH DEPT.

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

Your Emcon contact is Mr. Jay Johnson.

Your Pacific Environmental Group contact is Mr. Greg Barclay

Your Brown & Caldwell contact is Mr. Ron Zurlinden

CONSULTANTS CONTACTS

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

CONSULTANTS CONTACTS

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

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

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. SIGNED: _____ DATE: _____
REPORT DATE 1/2/09	CASE # N14	

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT T. Brignoni	PHONE (310) 407-2609	SIGNATURE T. Brignoni	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME HRCO Products Co		
	ADDRESS P.O. Box 6038, Artesia, CA 90702-6038			

RESPONSIBLE PARTY	NAME HRCO Products Co	CONTACT PERSON I. Brignoni	PHONE (310) 407-2609
	ADDRESS Same		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) #771	OPERATOR Jerry Shields	PHONE (510) 647-1399	
	ADDRESS 399 Kincon Ave., Livermore, Alameda 94550			
	CROSS STREET Pine			

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

SUBSTANCES INVOLVED	(1) NAME Gasoline (Supreme)	QUANTITY LOST (GALLONS) 1 Qt <input type="checkbox"/> UNKNOWN
	(2) _____ <input type="checkbox"/> UNKNOWN	

DISCOVERY/ABATEMENT	DATE DISCOVERED 1/2/09	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Drive-off	<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS	
	DATE DISCHARGE BEGAN 1/2/09	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Shut down product line		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1/2/09			

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL Drive-off <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER Pump #5	CAUSE(S)
---------------------	--	-----------------

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

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

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

COMMENTS
 With absorbent material and stored it on site. Roadrunner dispatched for pump repair.

cc: Kyle Knobe

INSTRUCTIONS

EMERGENCY

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

LOCAL AGENCY ONLY

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

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

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

CASE TYPE

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

CURRENT STATUS

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

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

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

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

REMEDIAL ACTION

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

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

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 24212, 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.

93 SEP 20 PM 12: 21

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

TRANSMITTAL

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

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

FROM: John C. Young

ROZOO

WE ARE SENDING YOU:

COPIES DATED

DESCRIPTION

Site Status Update for ARCO Stations:

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

THESE ARE TRANSMITTED as checked below:

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

REMARKS:

Copies: 1 to RESNA project file no. 61026.02


John C. Young, Project Manager

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

RECEIVED

SEP 30 1993

ROZ00

RESNA
Working To Restore Nature

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

DISTRICT ATTORNEY
ALAMEDA COUNTY
CEPD

TRANSMITTAL

TO: Mr. Mark Thompson
Alameda County District
Attorney's Office
7677 Oakport Street, Room 400
Oakland, CA 94605

DATE: September 15, 1993
PROJECT NUMBER: 61026.02
SUBJECT: Site Status Updates
ARCO Various Station
PAGE No.: 1 of 2

FROM: John C. Young

WE ARE SENDING YOU:

COPIES DATED

DESCRIPTION

Site Status Update for ARCO Stations:

- | COPIES DATED | DESCRIPTION |
|--------------|---|
| 1 9/2/93 | ARCO Station No. 601, 712 Lewelling Boulevard, San Leandro, California. |
| 1 9/2/93 | ARCO Station No. 6148, 5131 Shattuck Avenue, Oakland, California. |
| 1 9/2/93 | ARCO Station No. 6041, 7249 Village Parkway, Dublin, California. |
| 1 9/2/93 | ARCO Station No. 4494, 566 Hegenberger Road, Oakland, California. |
| 1 9/2/93 | ARCO Station No. 2185, 9800 East 14th Street, Oakland, California. |
| 1 9/2/93 | ARCO Station No. 1319, 365 Jackson Street, Hayward, California. |
| 1 9/2/93 | ARCO Station No. 362, 29900 Mission Boulevard, California. |
| 1 9/2/93 | ARCO Station No. 2107, 3310 Park Boulevard, Oakland, California. |
| 1 9/2/93 | ARCO Station No. 2035, 1001 San Pablo Avenue, Albany, California. |
| 1 9/2/93 | ARCO Station No. 771, 899 Rincon Avenue , Livermore, California. |

operating conditions required by section 66264.345 of this division as necessary to meet that performance standard.

(7) The applicant shall submit to the Department a certification that the trial burn has been carried out in accordance with the approved trial burn plan, and shall submit the results of all the determinations required in subsection (b)(6) of this section. This submission shall be made within 90 days of completion of the trial burn, or later if approved by the Department.

(8) All data collected during any trial burn shall be submitted to the Department following the completion of the trial burn.

(9) All submissions required by this subsection shall be certified on behalf of the applicant by the signature of a person authorized to sign a permit application or a report under section 66270.11.

(10) Based on the results of the trial burn, the Department shall set the operating requirements in the final permit according to section

66264.345 of this division. The permit modification shall proceed according to section 66270.42.

(c) For the purposes of allowing operation of a new hazardous waste incinerator following completion of the trial burn and prior to final modification of the permit conditions to reflect the trial burn results, the Department may establish permit conditions, including but not limited to allowable waste feeds and operating conditions sufficient to meet the requirements of section 66264.345 of this division, in the permit to a new hazardous waste incinerator. These permit conditions will be effective for the minimum time required to complete sample analysis, data computation and submission of the trial burn results by the applicant, and modification of the facility permit by the Department.

(1) Applicants shall submit a statement, with Part B of the permit application, which identifies the conditions necessary to operate in com-

[The next page is 758.291.]

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

September 2, 1993
0902SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

June, July and August 1993 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- Performed Third Quarter 1993 groundwater sampling.
- Submitted Second Quarter 1993 groundwater monitoring report.
- ARCO has attempted to gain offsite access to install additional offsite groundwater monitoring wells to the west of the site, and to date, access has been denied. Offsite property owner (Mr. Richard Rathburn) has requested for ARCO to assume full responsibility for any and all contamination found on the property, regardless of the source. It is unlikely an offsite agreement will be reached based on Mr. Rathburn's demands. In the meeting held at the Alameda County Health Care Services Agency (ACHCSA) on May 19, 1993,

Site Status Update
ARCO Station 771, Livermore, California

September 2, 1993
61026.02

June, July and August 1993 Activities (Cont.)

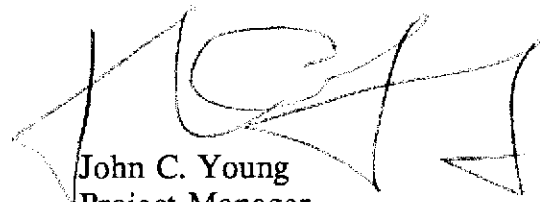
ARCO requested for the ACHCSA to pursue access from Mr. Rathburn as ARCO has sent three letters requesting access to date. Ms. Hugo has agreed to assist with obtaining offsite access.

Work Anticipated for September 1993

- Continue monthly inspections of product skimmers and collect depth to water in vapor wells.
- Initiate start-up testing of the interim remediation system at the site if water levels decrease. Water levels in all onsite wells have risen 20 to 25 feet (from 39 feet below grade to 15 feet below grade). This rise in water levels has resulted in complete loss of screened intervals in the vapor extraction wells at the site which are connected to the vapor extraction system.
- Based on a consistent groundwater flow direction over the past year of monthly monitoring at the subject site, ARCO will discontinue monthly monitoring as of September 1993, and continue quarterly sampling.

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

Sincerely,
RESNA Industries Inc.



John C. Young
Project Manager

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

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

01-0121

September 2, 1993
0902SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

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Site Status Update
ARCO Station 771, Livermore, California

September 2, 1993
61026.02

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

Sincerely,
RESNA Industries Inc.



John C. Young
Project Manager

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

entered

FUELLEAK CASE FORM

Review Date 7/26/88

Site Name Arce
Streetnumber 899
Street Rincon Ave
City Livermore
County Number 01

Priority B I

Rank _____

Primary Substance 12035

Secondary Substance _____

Waste Oil VOC TPH TOC

Case Type U G D

Status N

Well Status OK

Soil Affected Y U D

Max. Soil Conc. (ppm) _____

Max. Residual Soil (ppm) _____

Soil Status N

Groundwater Affected Y U D

Max. Groundwater Impact _____

Groundwater Status N

Depth to Groundwater _____

Drinking Water Affected Y U D

Drinking Water Status _____

Remedial Action OK

Proof of Action Needed ST RA

Date of Last Corr. 11/4/87

Date Case Received 11/4/87

Case Evaluated By LZ

93 JUN 11 11 5 22

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

June 7, 1993
0525SHGO
62028.02

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

Subject: Minutes to Meeting held at Alameda County Health Care Services Agency
(ACHCSA) on May 19, 1993.

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), RESNA Industries, Inc. (RESNA) has prepared these minutes for the meeting held at your offices on May 19, 1993. This meeting was held for discussion of ARCO sites 374, 771, 2185, 6041, 6113, and 6148 located in Alameda County. In addition to yourself, attending the meeting were Ms. Eva Chu and Mr. Barney Chan of the ACHCSA, Mr. Michael Whelan of ARCO, Ms. Valli Voruganti, Mr. John Young, and Mr. Greg Barclay of RESNA.

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

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

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

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

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

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

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

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

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

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

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

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

Minutes to May 19, 1993 Meeting at ACHCSA
ARCO Various

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

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

Sincerely,

RESNA Industries Inc.


John C. Young
Project Manager

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

R 200

3315 Almaden Expressway, Suite 34
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FAX: (408) 264-2435

March 19, 1993
0318SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

February 1993 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- ARCO has attempted to gain offsite access to install additional offsite groundwater monitoring wells to the west of the site, and to date, access has been denied. Offsite property owner (Mr. Richard Rathburn) has requested for ARCO to assume full responsibility for any and all contamination found on the property, regardless of the source. It is unlikely agreement will be reached based on Mr. Rathburn's demands. **ARCO requests for the Alameda County Health Care Services Agency to pursue access from Mr. Rathburn as ARCO has sent three letters requesting access to date.** As discussed in meeting held at ACHCSA on December 19, 1992, wells were placed on City of Livermore property to the southeast and northeast of the ARCO site.

Site Status Update
ARCO Station 771, Livermore, California

March 19, 1993
61026.02

February 1993 Activities (Cont.)

- Continued preparation of report of onsite and offsite well installations, due in final form on March 1, 1993.

Work Anticipated for March 1993

- Continue monthly groundwater monitoring.
- Monthly inspections of product skimmers will continue.
- Submit report detailing onsite and offsite well installations, due in final form on March 1, 1993.
- Complete the installation of the interim remediation system at the site. Initiate start-up testing of the equipment, start-up of system may be delayed due to extremely high water levels in the vapor extraction and monitoring wells from the recent heavy rains.

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Manager

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

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San Jose, CA 95118
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TRANSMITTAL

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

DATE: March 19, 1993
PROJECT NUMBER: 61026.02
SUBJECT: Site Status Updates

FROM: Joel Coffman
TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	3/19/93	61026.02	Site Status Updates

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Copies: 1 to RESNA project file no. 61026.02

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February 23, 1993
0217SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

January 1993 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- Continued to pursue gaining offsite access to install additional offsite groundwater monitoring wells to the west of the site as, to date, access has been denied. As discussed in meeting held at ACHCSA on December 19, 1992, wells were placed on City of Livermore property while ACHCSA continues to pursue access with offsite property owner of adjacent property.
- Initiated preparation of report of onsite and offsite well installations, due in final form on March 1, 1993.

Site Status Update
ARCO Station 771, Livermore, California

February 23, 1993
61026.02

Work Anticipated for February 1993

- Continue monthly groundwater monitoring.
- Monthly inspections of product skimmers will continue.
- Complete preparation of report detailing onsite and offsite well installations, due in final form on March 1, 1993.
- Initiate completion of the installation of the interim remediation system at the site.

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

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

3315 Almaden Expressway, Suite 34
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20200

January 29, 1993
0129SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

December 1992 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- Continued to pursue gaining offsite access to install additional offsite groundwater monitoring wells, to date, access has been denied. As discussed in meeting held at ACHCSA on December 19, 1992, wells will be placed on City of Livermore property while ACHCSA continues to pursue access with offsite property owner of adjacent property.
- Received encroachment permit from the City of Livermore for installation of offsite monitoring wells. Report of offsite well installations due in final form on March 1, 1993.

Site Status Update
ARCO Station 771, Livermore, California

January 29, 1993
61026.02

Work Anticipated for January 1993

- Continue monthly groundwater monitoring.
- Monthly inspections of product skimmers will continue.
- Drill and install offsite monitoring wells along City of Livermore property, continue to negotiate with adjacent property owner for access to install additional wells.

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

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

93 JAN 14 11 6:00

January 13, 1993

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

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

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

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

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

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

REPORTDATECONSULTANT

Letter Report on Quarterly Groundwater
Monitoring Third Quarter 1992
60000.13

11/30/92

RESNA

Letter Report on Quarterly Groundwater
Monitoring Second Quarter 1992
60000.13

9/28/92

RESNA

Letter report on Quarterly Groundwater
Monitoring, First Quarter 1992
60000.06

5/1/92

RESNA

Addendum Three to Workplan
60000.09

3/9/92

RESNA

Addendum Two to Workplan for
Preliminary Design of a Vapor
Extraction System
60000.12

1/31/92

RESNA

Letter Report on Vapor Extraction Test
60000.07

1/3/92

RESNA

Letter Report on Quarterly Groundwater
Monitoring, Third Quarter 1991.
60000.06

11/22/91

RESNA

Report Additional Subsurface Investigation
60000.06

10/17/91

RESNA

Letter Report on Quarterly Ground-
Water Monitoring, Second Quarter 1991
60000.06

7/11/91

RESNA

Work Plan and Addendum One to Work Plan
for Subsurface Investigation and Remediation
AGS 60000.06

5/15/91

RESNA/Applied
GeoSystems

Report on Supplemental Subsurface
Investigation
AGS 60000.04

4/12/91

RESNA/Applied
GeoSystems

Work Plan Supplemental Subsurface
Investigation
AGS 60000-3

8/31/90

Applied
GeoSystems

Report on Limited Subsurface Environmental
Assessment
AGS 60000-1

6/22/90

Applied
GeoSystems

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San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

TRANSMITTAL

TO: Mr. Eddy So
RWQCB, San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

DATE: December 17, 1992
PROJECT NUMBER: 61078.02
SUBJECT: Remediation Schedules for
ARCO Sites in Alameda County, CA

FROM: Joel Coffman
TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	12/17/92	61078.02	Remediation Schedules.

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 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files

REMARKS: cc: ~~Mr. [redacted]~~ Alameda County Health Care Services Agency
Mr. Hugh Murphy, City of Hayward Fire Department
Mr. Michael Whelan, ARCO
Mr. John Meck, ARCO Legal
Mr. Chris Winsor, ARCO

Copies: 1 to RESNA project file no. 61078.02

92 DEC 21 11:11

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

December 17, 1992
1217edso
61078.02

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

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

Dear Mr. So:

On behalf of ARCO Products Company (ARCO), and as you requested in the meeting held on November 19, 1992 at the Alameda County Health Care Services Agency (ACHCSA), RESNA has prepared these estimated schedules for remediation of sites under your regulatory oversight. These include ARCO Stations 362 and 1319 in Hayward, California, and ARCO Stations 771 and 6113 in Livermore, California.

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

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, ACHCSA
Mr. Hugh Murphy, City of Hayward Fire Dept.
Mr. Michael Whelan, ARCO
Mr. John Meck, ARCO legal
Mr. Chris Winsor, ARCO

3315 Almaden Expressway, Suite 34
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December 11, 1992
1211SHUG.771
61026.02

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

d-0121

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

November 1992 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- Continued to pursue gaining offsite access to install additional offsite groundwater monitoring wells, to date, access has been denied. As discussed in meeting held at ACHCSA on November 19, 1992, wells will be placed on City of Livermore property while ACHCSA continues to pursue access with offsite property owner of adjacent property.
- Submitted Final Third Quarter 1992 Quarterly Monitoring Report to ARCO and regulators.
- Initiated installation of interim remediation system at site.

Site Status Update
ARCO Station 771, Livermore, California

December 11, 1992
61026.02

Work Anticipated for December 1992

- Continue monthly groundwater monitoring.
- Monthly inspections of product skimmers will continue.
- Initiate permitting process with City of Livermore for installation of offsite monitoring wells. Report of offsite well installations due in final form on March 1, 1993.

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

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

92 NOV 23 PM 2:23

3315 Almaden Expressway, Suite 34
 San Jose, CA 95118
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TRANSMITTAL

TO: Ms. Susan Hugo
 ACHCSA
 Dept. of Environmental Health
 80 Swan Way, Room 200
 Oakland, California 94612

DATE: November 25, 1992
 PROJECT NUMBER: Various
 SUBJECT: Minutes to Meeting

FROM: Joel Coffman
 TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	11/24/92	Various	Minutes to Meeting held at Alameda County Health Care Services Agency (ACHCSA) on November 19, 1992.

THESE ARE TRANSMITTED as checked below:

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 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files

cc: Mr. Michael Whelan, ARCO Products Company
 Mr. Chris Winsor, ARCO Products Company
 John Meck, ARCO Legal Department
 Eddy So, RWQCB
 Hugh Murphy, City of Hayward Fire Department
 Juliet Shin, ACHCSA
 John Vargas, GeoStrategies

Copies: 1 to RESNA project file no. Various ARCO sites

3315 Almaden Expressway, Suite 34
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November 24, 1992
1124shgo

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 November 19, 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 November 19, 1992. This meeting was held for discussion of ARCO sites located in Alameda County and under direction of Mr. Eddy So of the Regional Water Quality Control Board (RWQCB). In addition to Mr. Eddy So, attending the meeting were Ms. Susan Hugo and Ms. Juliet Shin of the ACHCSA, Mr. Hugh Murphy and Mr. Jay Swardenski of the City of Hayward Fire Department, Mr. Michael Whelan of ARCO, Mr. John Vargas of GeoStrategies, Inc., and Mr. Joel Coffman of RESNA. An agenda for the meeting, including a listing of sites for discussion, was sent to the offices of the ACHCSA, City of Hayward Fire Department, and the RWQCB prior to the meeting.

Items discussed include the following: ongoing assessment at the sites, offsite access problems, 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 entire meeting were Mr. Eddy So of the RWQCB, Ms. Susan Hugo of the ACHCSA, Mr. Michael Whelan of ARCO, and Mr. Joel Coffman of RESNA. The meeting convened at approximately 1:45 p.m. Site specific topics discussed are included in the following portion of these minutes.

ARCO Station 5387, 20200 Hesperian Blvd., Hayward California.

In addition to the people that were present for the entire meeting, during discussion of ARCO Station 5387 were Ms. Juliet Shin of ACHCSA, Mr. John Vargas of GeoStrategies Inc., and Mr. Hugh Murphy and Mr. Jay Swardenski of the City of Hayward Fire Department.

Mr. Vargas described the status of the investigation and planned site activities. Previous work involved installation of seven groundwater monitoring wells and drilling and sampling of four borings. Current work involved three phases which will be presented in an upcoming report. This report is in draft stage and will be submitted **within one month**. Phase One involved the installation of two groundwater monitoring wells and one groundwater recovery well. Phase Two involved monitoring and sampling of all site wells and Phase Three involved aquifer testing. In addition, a groundwater monitoring well was installed down-gradient and across Hesperian Boulevard on November 18, 1992. The extent of hydrocarbon impacted groundwater appears to be delineated on the upgradient and cross-gradient directions. Sampling data from the newly installed well is necessary to assess the down-gradient extent of hydrocarbons. None of the ARCO groundwater monitoring wells contain floating product.

There are four other environmental cases in the vicinity of the ARCO Station. These include the former Texaco Station/Exxon, UNOCAL Station, Shell Station, and Beacon/Alliance Station. Of these, only the Beacon/Alliance Station is currently in operation. According to a Harding Lawson Associates Report concerning the former Texaco Station, an extensive floating product plume appears to be originating from the Beacon/Alliance Station. Mr. Hugh Murphy informed Mr. Michael Whelan that his offices (City of Hayward Fire Department) have additional data pertaining to these cases. Mr. Murphy stated that two letters of violation have been submitted to Beacon/Alliance concerning their site but, as yet, the City of Hayward Fire Department has not received a response.

Ms. Juliet Shin asked if leaded gas was ever present on-site and if lead analysis was performed. ARCO agreed to look into this question.

Due to time required to complete the site assessment, the remediation time schedule should be shifted 4-months. This will make **July, 1993** be the estimated date for start-up of the interim remediation system at the site. Remediation activities at the ARCO Service Station will be carefully monitored so that other nearby contamination problems will not be pulled toward the ARCO Station.

Upon completion of discussion for this site, Ms. Juliet Shin and Mr. John Vargas exited the meeting as this was the only site in which they were specifically involved with.

ARCO Station 362, 29900 Mission Blvd., Hayward, California.

Discussion of this site included mention that the downgradient offsite monitoring wells (MW-6 through MW-8) had been installed and sampled and groundwater samples collected from the offsite wells (MW-6 through MW-8) contained non-detectable amounts of gasoline hydrocarbons. Additionally, eight vapor extraction wells were installed for use in the interim soil remediation system at the site. A work plan outlining three proposed additional onsite groundwater monitoring well installations and the report of the results of the installation of the offsite monitoring wells and eight onsite vapor extraction wells is due to the City of Hayward and the RWQCB before Christmas, 1992.

Mr. Hugh Murphy raised concerns about halogenated volatile organic compounds (VOCs) previously detected in groundwater samples collected from former monitoring well MW-1 (located near the former waste oil tank) and also mentioned that petroleum hydrocarbons were detected in soil samples collected during the recent removal of the oil/water separator/clarifier at the site, as stated in the City of Hayward Fire Department letter to ARCO dated October 27, 1992. Mr. Murphy requested, and Mr. So concurred, that in addition to analyses for gasoline compounds, that groundwater samples collected from monitoring well MW-3 be analyzed for VOCs using EPA Method 8240 in future monitoring events. MW-3 was chosen as it is located relatively downgradient from the former waste-oil tank and former oil/water separator locations. According to Mr. Murphy, these revisions to the current monitoring program will address the City of Hayward's concerns related to the former oil/water separator/clarifier.

It was explained that the engineering plans and specifications had been finalized for the interim remediation system to be installed at the site and that the bid had been awarded to the construction contractor. Procurement of necessary equipment has been initiated and the estimated date for commencement of construction activities is on or before February 1, 1993. This construction date allows for an estimated system start-up date for system testing and operation by mid-March, 1993.

ARCO Station 1319, 365 Jackson Street, Hayward, California.

Discussion concerning this site began with Mr. Murphy asking why the groundwater elevations measured in on-site monitoring well MW-1 (located within the former gasoline tank pit) were not used for gradient calculation. Mr. Coffman explained that groundwater elevations in MW-1 were anomalously high compared with measured elevations from the other nearby wells. Two possible explanations were provided for these high groundwater elevations in MW-1: that this was part of the effect from being constructed within the former tank pit, which allows for preferential water drainage into MW-1; and, that field personnel had consistently reported that MW-1 was under positive pressure which was noticeable upon opening the sealed well cap during monitoring events. Discussion ensued concerning the positive pressure on the well and Mr. Murphy expressed concerns that if hydrocarbon vapors were being released upon opening the well, that there is a possibility this could pose a potential fire or explosive hazard. It was decided that Mr. Murphy would discuss this with Fire Department personnel and possibly arrange a site meeting to examine the well.

It was discussed that two offsite groundwater monitoring wells (MW-9 and MW-10) had been installed across Jackson and Sycamore Streets from the site. There were some three months delay in the installation of well MW-9 due to obtaining an encroachment permit from Cal Trans. Mr. Coffman provided copies of laboratory analytical results of soil and groundwater samples collected during installation of the off-site wells. These results showed groundwater from well MW-10, located off-site and upgradient from the ARCO site, contained elevated levels of gasoline hydrocarbons. Mr. Coffman had obtained historical aerial photographs of the site vicinity which showed a former gasoline existed in the general vicinity that offsite well MW-10 is located. The site is currently occupied by a seven-eleven store which does not sell gasoline. The offsite monitoring well (MW-9) located cross gradient from the ARCO site contained non-detectable amounts of gasoline hydrocarbons in groundwater samples. A report detailing results of the investigation related to the installation of the offsite monitoring wells and an addendum to work plan proposing installation of additional onsite vapor extraction wells, an onsite groundwater recovery well, and performance of an aquifer test is due to the City of Hayward and the RWQCB before Christmas, 1992. The report detailing results of additional well installations and aquifer test is due for submittal on April 1, 1993. A Remedial Action Plan is due for submittal on May 1, 1993. Detailed engineering design for the interim remediation system at the site is due to be completed by July 1, 1993.

Discussion concerning the location of monitoring well MW-7, near the former waste-oil tank followed. Mr. Murphy and Mr. So expressed concerns that MW-7 was cross-gradient and

not downgradient from the former waste-oil tank. It was agreed that at least another quarter of monitoring to collect additional data to better establish the direction of groundwater flow would take place before a decision would be reached whether to discontinue sampling MW-7 and install an additional well downgradient from the former waste-oil tank.

Based on work currently performed at the site, Mr. Coffman and Mr. Whelan said the engineering design for an interim remediation system for this site should be completed and sent out for construction bids by **September, 1993**. This estimated schedule would allow for an estimated construction commencement date of **November, 1993**. Estimated testing and start-up of the system is **mid - to - late December, 1993**. Mr. So questioned the amount of time required for ARCO to construct these systems. Mr. Whelan explained in the past year, ARCO has learned it takes approximately 9 to 11 months to get from the end of site characterization phase to start-up of these systems. Many of the delays were due to permitting problems including some cases in which the permitting process was almost complete and cities have re-zoned the areas, which has caused significant (up to three or more months) additional delays. Permitting delays have also been encountered in dealings with sanitary districts and the Bay Area Air Quality Management District. Other delays have been associated with slow manufacturer delivery of large pieces of remediation equipment such as catalytic and thermal oxiders.

Mr. So remarked that the monthly site status updates provided for the sites under his jurisdiction were vague and lacked specific dates for completion of certain tasks. He requested that these monthly updates be made more time specific and that they show more commitment on ARCO's part for completing things within given time frames. ARCO agreed to revise the monthly reports.

Mr. Whelan said he would write a letter to Mr. So citing specific examples of delays ARCO had encountered in getting some of these systems installed and operational.

Upon completion of discussion concerning this site, Mr. Hugh Murphy and Mr. Jay Swardenski excused themselves from the meeting as they were not involved in the sites to be discussed which are located in Livermore, California.

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

Discussion about this site began by Ms. Susan Hugo and Mr. Joel Coffman mentioning that the owner of property immediately adjacent to the ARCO site had refused to allow ARCO to install groundwater monitoring wells on the property. Mr. So suggested that Ms. Hugo try and schedule a meeting between herself, ARCO, and the property owner. It was noted that three written requests had already been made and that the property owner had spoken with Mr. Coffman and Ms. Hugo concerning this matter. Ms. Hugo said the property owner would allow installation of the wells if ARCO would sign an agreement in advance that whatever contamination may be found in soil or groundwater during the well installations would be the sole responsibility of ARCO. Mr. Whelan explained that ARCO is willing to clean up soils and groundwater impacted by petroleum hydrocarbons which originate from ARCO-owned sites, but ARCO will not sign license agreements granting blanket indemnification for any and all soil/groundwater contaminants.

Mr. Coffman showed Mr. So and Ms. Hugo proposed new locations for three offsite monitoring wells which will be located within City of Livermore right of ways. Mr. So and Ms. Hugo agreed with the proposed new well locations and requested a letter be sent with a Plate showing the proposed locations in lieu of a new work plan addendum. She stipulated that upon gaining access, at least two additional wells would need to be placed upon the adjacent property in the future. The report detailing the results of the offsite monitoring well installations is due to the RWQCB and ACHCSA by **March 1, 1993**.

It was explained that this site was on schedule for installation and start-up of the interim remediation system at the site and that construction of the system had commenced on November 9, 1992.

Ms. Hugo pointed out to Mr. Whelan that in the underground tank replacement report prepared by ROUX Associates, there were no manifest forms included to document disposal of the former tanks. Mr. Whelan agreed to provide these manifest forms.

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

Discussion about this site commenced with Mr. Coffman discussing the existence of two shallow water-bearing zones at the site. The shallowest zone, in which wells MW-1 through MW-4 are constructed, has contained little or no water for the past year and the deeper zone, in which wells MW-5 through MW-9 are constructed, has seen water levels decrease significantly (several feet) during the past quarter. Mr. So explained that the City of

Livermore has many large pumping wells used as domestic supply wells and that pumping of these wells may be partially responsible for the drop in water levels. He asked if RESNA had conducted a well search to identify wells located within 1/2 mile of the site and if water temperature data had been collected from the monitoring wells. Mr. Coffman said he would investigate this further. Mr. So requested that upon installation of a groundwater recovery well, that ARCO continuously sample the soil boring to verify that an aquitard exists between the shallow and deep two water-bearing zones at the site.

Mr. Coffman explained that additional borings, monitoring wells, and two vapor extraction wells had been installed at the site recently and that ARCO currently had the report draft for review. Mr. Whelan said this report would be issued to the RWQCB and ACHCSA in final form by **Christmas, 1992**. In addition, a work plan proposing additional onsite and initial offsite monitoring wells, additional onsite vapor extraction wells, a groundwater recovery well, and performance of an aquifer test would be delivered to the RWQCB and ACHCSA by **January 1, 1993**. The report detailing results of these well installations and aquifer test is due to the RWQCB and ACHCSA by **April 15, 1993**. Other time tables for commencement or completion of work related to this site include a Remedial Action Plan is due to the RWQCB and ACHCSA by **May 15, 1993**. Engineering design should be completed by **July 15, 1993** and bid requests sent out and awarded to winning construction contractor by **August 30, 1993**. This will allow for construction of an interim remediation system at the site to commence by **November 1, 1993**.

Ms. Hugo requested that when water is present in groundwater monitoring well MW-1 that samples collected from the well be submitted for TOG analysis as it is located downgradient from the former waste oil tank.


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

Minutes to November 19, 1992 Meeting at ACHCSA

November 24, 1992

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.
Eddy So, RWQCB
Hugh Murphy, City of Hayward Fire Department
Juliet Shin, ACHCSA
John Vargas, GeoStrategies

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

November 13, 1992
1112shgo

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

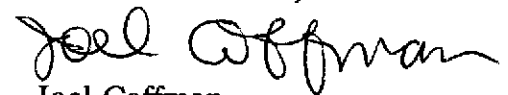
Subject: Proposed Agenda for Meeting at your office on November 19, 1992.

Dear Ms. Hugo:

We have prepared this proposed agenda for the meeting we have scheduled at your office at 1:30 p.m. on November 19, 1992. This meeting will be for discussion of sites under direction of Mr. Eddy So of the Regional Water Quality Control Board (RWQCB). We understand you have contacted Mr. So to ascertain that he will be able to attend the meeting. Mr. Hugh Murphy of the City of Hayward Fire Department will attend the meeting to discuss sites which fall under City of Hayward regulatory oversight. Mr. So is the RWQCB person with oversight responsibility of the Hayward sites. A separate meeting to discuss sites overseen by Mr. John Jang of the RWQCB will be scheduled at another date.

Items we would like to discuss include the following: ongoing assessment at the sites, offsite access problems, 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
Eddy So, RWQCB
Hugh Murphy, City of Hayward Fire Department
John Vargas, GeoStrategies

Proposed Agenda for November 19, 1992 ACHCSA Meeting

	<u>ARCO Station</u>	<u>Oversight Staff/Agency</u>	<u>Cnsltnt</u>
1:30 to 3:00	# 5387, 20200 Hesperian Blvd. Hayward California.	Ms. Juliet Chin/ACHCSA	GeoStratagies
	# 362, 29900 Mission Blvd. Hayward, California.	Hugh Murphy/City of Hayward	RESNA
	# 1319, 365 Jackson Street Hayward, California.	Hugh Murphy/City of Hayward	RESNA
3:00 to 4:30	# 771, 899 Rincon Ave. Livermore, California	Susan Hugo/ACHCSA	RESNA
	# 6113, 785 E. Stanley Blvd. Livermore, California	Susan Hugo/ACHCSA	RESNA

92 NOV 16 PM 1:40

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

TRANSMITTAL

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

DATE: November 12, 1992
PROJECT NUMBER:
SUBJECT: Proposed Agenda

FROM: Joel Coffman
TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	11/12/92		Proposed Agenda on November 19, 1992.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: cc: Mr. Michael Whelan, ARCO Products Company
Mr. Eddy So, RWQCB
Mr. Hugh Murphy, City of Hayward Fire Department
Mr. John Vargas, GeoStrategies

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

November 6, 1992
1105SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

October 1992 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- Continued to pursue gaining offsite access to install additional offsite groundwater monitoring wells, to date, access has been denied.
- Awarded bid to contractor for installation of interim remediation system at site.

Site Status Update
ARCO Station 771, Livermore, California

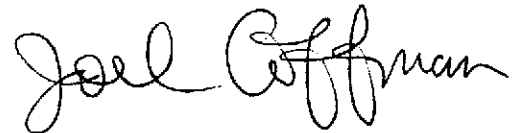
November 6, 1992
61026.02

Work Anticipated for November 1992

- o Continue monthly groundwater monitoring.
- o Monthly inspections of product skimmers will continue.
- o Continue to pursue offsite access for installation of offsite wells, have changed locations of offsite wells to be located on City of Livermore property. Now beginning permitting process with City of Livermore.
- o Initiate installation of interim remediation system at site.

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

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

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

October 16, 1992
1016SHUG.771
61026.02

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

September 1992 Activities

- Performed monthly groundwater monitoring.
- Performed monthly inspections of product skimmers.
- Continued to pursue gaining offsite access to install additional offsite groundwater monitoring wells, to date, access has been denied.
- Submitted Final Second Quarter 1992 Groundwater Monitoring Report to ARCO and regulators.
- Submitted Final Plans and Specifications for installation of an interim soil remediation system to bidding contractors.
- Sent encroachment permit application to the City of Livermore.

Site Status Update
ARCO Station 771, Livermore, California

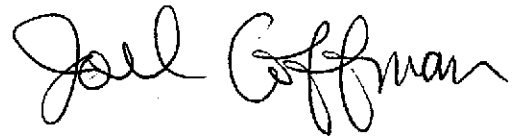
October 16, 1992
61026.02

Work Anticipated for October 1992

- Continue monthly groundwater monitoring.
- Monthly inspections of product skimmers will continue.
- Continue to pursue offsite access for installation of offsite wells. May require the Regional Water Quality Control Board's and/or Alameda County's assistance.

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

Sincerely,
RESNA Industries Inc.



Joel Coffman
Project Geologist

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

October 12, 1992

92 OCT 11 PM 12:55

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

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

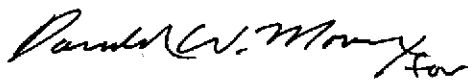
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1992; also included are projected site activities for the fourth quarter of 1992 and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

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

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

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

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

UST LEAK Date of Last Current
SITE UPDATE Review/Update June 29, 1992 Date September 25, 1992

SITE IDENTIFICATION

Name ARCO Service Station 771 Case No. _____
Address 899 Rincon Avenue/Pine Street
 Street Number Street
 Livermore 94550
City ZIP Code
County Alameda Substance Gasoline
Local Agency Alameda County Health Care Services Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON ACHCSA - Susan Hugo

CASE TYPE

_____ Undetermined _____ Soil Only X Groundwater _____ Drinking Water

STATUS (Date indicates when case moved into status)

_____	No Action Taken	
<u> X </u>	Leak Being Confirmed	Date 8/87
<u> X </u>	Preliminary Site Assessment Workplan Submitted	Date 9/24/90
<u> X </u>	Preliminary Site Assessment Underway	Date 12/90
<u> X </u>	Pollution Characterization	Date 7/91
<u> X </u>	Remediation Plan	Date 2/92
_____	Remedial Action Underway	Date _____
_____	Post Remedial Action Monitoring	Date _____
_____	Case Referred to Regional Board	Date _____
_____	Case Referred to Dept. of Health Services	Date _____
_____	Case Closed	Date _____

COMMENTS/MILESTONES:

Installed an offsite recovery well, RW-1, vapor extraction well, VW-1, and one offsite monitoring well MW-11 in April 1992.

RECENT ACTIVITIES/FINDINGS:

Last Quarter Activities: Drilled and installed onsite recovery well, RW-1, vapor extraction well, VW-1, and one offsite groundwater monitoring well, MW-11. Initiated preparation of a report on initial offsite and additional onsite subsurface investigation. Submitted First Quarter 1992 Quarterly Groundwater Monitoring Report to regulatory agencies on 5/1/92. Submitted second request for offsite access to the offsite property owner on 5/13/92. Submitted third request for offsite access to the offsite property owners on 6/29/92. Continued quarterly groundwater monitoring.

Current Quarter Activities: Performed monthly inspections of floating product skimmer. Submitted Second Quarter 1992 Quarterly Groundwater Monitoring Report to regulatory agencies on September 28, 1992. Offsite property owner refused to grant offsite access to install wells. Submitted street encroachment permit application to the City of Livermore on September 28, 1992 to install wells in the street. Sent bids out to contractors for installation of VES.

ANTICIPATED ACTIVITIES:

Next Quarter Activities: Continue monthly inspections of the floating product skimmer. Upon gaining offsite access and City permits, drill and install offsite wells. Prepare a report on initial offsite and additional onsite subsurface investigation. ARCO to perform quarterly groundwater monitoring. Prepare quarterly groundwater monitoring report. Award bid for VES installation, secure all equipment and initiate.

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

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report on Quarterly Groundwater Monitoring Second Quarter 1992 60000.13	9/28/92	RESNA
Letter report on Quarterly Groundwater Monitoring, First Quarter 1992 60000.06	5/1/92	RESNA
Addendum Three to Workplan 60000.09	3/9/92	RESNA
Addendum Two to Workplan for Preliminary Design of a Vapor Extraction System 60000.12	1/31/92	RESNA
Letter Report on Vapor Extraction Test 60000.07	1/3/92	RESNA
Letter Report on Quarterly Groundwater Monitoring, Third Quarter 1991. 60000.06	11/22/91	RESNA
Report Additional Subsurface Investigation 60000.06	10/17/91	RESNA
Letter Report on Quarterly Groundwater Monitoring, Second Quarter 1991 60000.06	7/11/91	RESNA
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation AGS 60000.06	5/15/91	RESNA/Applied GeoSystems
Report on Supplemental Subsurface Investigation AGS 60000.04	4/12/91	RESNA/Applied GeoSystems
Work Plan Supplemental Subsurface Investigation AGS 60000-3	8/31/90	Applied GeoSystems
Report on Limited Subsurface Environmental Assessment AGS 60000-1	6/22/90	Applied GeoSystems

Certified Mail Ppp634 025042 01-0121

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

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 09/18/92		CASE # _____		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT T. Brignoni		PHONE (310) 407-2609		SIGNATURE T. Brignoni	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME ARCO Products Company			
	ADDRESS P.O. Box 6038, Artesia, CA 90702-6038					
RESPONSIBLE PARTY	NAME ARCO Products		CONTACT PERSON I. Brignoni		PHONE (310) 407-2609	
	ADDRESS P.O. Box 6038, Artesia CA 90702-6038					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) # 771		OPERATOR Jerry Shields		PHONE (510) 447-1329	
	ADDRESS 899 Rinton Ave., Livermore Alameda 94550					
	CROSS STREET Pine					
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Public Health		AGENCY NAME _____		CONTACT PERSON Tim Spates	
	REGIONAL BOARD _____		PHONE (510) 271-4320		PHONE () _____	
SUBSTANCES INVOLVED	(1) NAME gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN			
	(2) _____		<input type="checkbox"/> UNKNOWN			
DISCOVERY/ABATEMENT	DATE DISCOVERED 09/18/92		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Visual			
	DATE DISCHARGE BEGAN 09/18/92		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Shut down product line.			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 09/18/92		<input type="checkbox"/> UNKNOWN			
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> OTHER internal leak at Disp. #8			
	CASE TYPE <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HL) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> OTHER (OT) Contractor dispatched					
	COMMENTS for pump repair					

cc: Kyle Christie

INSTRUCTIONS

EMERGENCY

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

LOCAL AGENCY ONLY

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

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

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

CASE TYPE

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

CURRENT STATUS

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

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

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

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

REMEDIAL ACTION

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

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

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

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

Confidential Mail P 674 024 888 01-0121
 01-1198

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

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 06/19/92		CASE # 23184 ^{TA}		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT T. Brignoni		PHONE (310) 407-2609	SIGNATURE T. Brignoni		
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME ARCO Products Company			
	ADDRESS 17315 Studebaker Rd., Cerritos, CA 90701					
RESPONSIBLE PARTY	NAME ARCO Products		CONTACT PERSON T. Brignoni	PHONE (310) 407-2609		
	ADDRESS 17315 Studebaker Rd., Cerritos, CA 90701					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) 771		OPERATOR Jerry SHIELAS	PHONE (510) 447-1329		
	ADDRESS 899 Rincon Ave. Livermore Alameda 94550					
	CROSS STREET Pine					
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda Co. Public Health		CONTACT PERSON Tim Spates		PHONE (510) 271-4320	
	REGIONAL BOARD _____ PHONE () _____					
SUBSTANCES INVOLVED	(1) NAME gasoline			QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2) _____ <input type="checkbox"/> UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 06/19/92		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER Visual			
	DATE DISCHARGE BEGAN 06/19/92		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER Shut down product line			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 06/19/92					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> SPILL <input checked="" type="checkbox"/> OTHER leak in dispenser #4			
	CASE TYPE <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) Confined to company property					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> CLEANUP UNDERWAY					
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) Dealer noticed internal weep on dispenser #4. Dispatched contractor for repair. <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VENT SOIL (VS)					
COMMENTS	on dispenser #4. Dispatched contractor for repair.					

ARCO

cc: Kyle Christke

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (SES) at 2800 Meadowview Road, Sacramento, CA 95833. Copies of the SES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the SES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid employee notification pursuant to Health and Safety Code Section 25199.2, a government employee should sign and date the form in this block. A signatory must first determine that the leak has been determined to pose a significant threat to human health or safety, and that notification procedures have been followed if required.

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

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

CASE TYPE

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

CURRENT STATUS

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

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

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

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

Preliminary Site Assessment Underway - Implementation of workplan.

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

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

Cleanup Underway - implementation of remediation plan.

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

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

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

REMEDIATION ACTION

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

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

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

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

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

Remove Free Product - remove floating product from water table.

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

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

Replace Supply - provide alternative water supply to affected parties.

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

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

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

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

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 94210, Sacramento, CA 95824 2120
3. Regional Water Quality Control Board
4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
5. Owner/responsible party.

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

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
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REPORT DATE: 05/1/92 CASE # 23328

SIGNED: _____ DATE: _____

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT S. Douglas	PHONE (310) 407-9603	SIGNATURE S. Douglas
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ARCO Products Company	
	ADDRESS 17315 Studebaker Rd., Carritos, CA 90761		

RESPONSIBLE PARTY	NAME ARCO Products	CONTACT PERSON S. Douglas	PHONE (310) 407-2603
	ADDRESS 17315 Studebaker Rd., Carritos CA 90701		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) #771	OPERATOR J. Shields	PHONE (510) 447-1329
	ADDRESS 899 Rincon Ave.	Livermore	Alameda 94550
	CROSS STREET Rine		

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

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

DISCOVERY/ABATEMENT	DATE DISCOVERED 05/1/92	HOW DISCOVERED <input checked="" type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN 05/1/92	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 05/1/92	<input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER Visual

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER Shut down product line.
		dispenser leak (interior)

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

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

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

EMERGENCY

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

LOCAL AGENCY ONLY

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

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

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

CASE TYPE

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

CURRENT STATUS

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

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

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

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

REMEDIAL ACTION

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

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

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

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

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

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE M M D D Y Y 11 15 2012		CASE # 2012		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT S. Douglas		PHONE (111) 417-4353	SIGNATURE <i>[Signature]</i>	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME MCO		
RESPONSIBLE PARTY	ADDRESS 1115 N. DeKalb Ave. Decatur, GA 30030				
	NAME MCO		<input type="checkbox"/> UNKNOWN	CONTACT PERSON S. Douglas	PHONE (770) 417-2662
SITE LOCATION	FACILITY NAME (IF APPLICABLE) 1115 N. DeKalb Ave. Decatur, GA 30030				
	ADDRESS 1115 N. DeKalb Ave. Decatur, GA 30030		CITY Decatur	STATE GA	ZIP 30030
	CROSS STREET Pine				
IMPLEMENTING AGENCIES	LOCAL AGENCY County - DeKalb		AGENCY NAME		CONTACT PERSON L. Miller
	REGIONAL BOARD				PHONE (478) 271-1330
SUBSTANCES INVOLVED	(1) NAME			QUANTITY LOST (GALLONS)	
	(2)			gas <input checked="" type="checkbox"/> UNKNOWN	
DISCOVERY/ABATEMENT	DATE DISCOVERED 11/15/12		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN 11/15/12		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER <i>written others</i>		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 11/15/12				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input checked="" type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER		
	CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> OTHER (OT) <i>written others</i>				
COMMENTS					

INSTRUCTIONS

EMERGENCY

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

LOCAL AGENCY ONLY

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

REPORTED BY

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

RESPONSIBLE PARTY

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

SITE LOCATION

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

IMPLEMENTING AGENCIES

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

SUBSTANCES INVOLVED

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

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

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

CASE TYPE

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

CURRENT STATUS

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

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

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

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

REMEDIAL ACTION

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

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

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

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

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

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



A RESNA Company

RESNA

Working To Restore Nature

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

(01)

May 11, 1992
0330ERAT
60000.09

Edward W. & Geraldine A. Rathburn
16918 East 14th Street
San Leandro, California 94578

ARCO

Subject: Second Request for Access to Install Groundwater Monitoring Wells and Conduct an Offsite Subsurface Environmental Investigation at ~~783~~ 899 Rincon Avenue, Livermore, California.

Dear Mr. & Mrs. Rathburn,

On behalf of ARCO Products Company (ARCO), RESNA Industries (RESNA) is submitting this second request for property access to install and monitor three (3) groundwater monitoring wells on the property located at 783 Rincon Avenue, Livermore, California, as part of an offsite subsurface environmental investigation. The initial request for property access was sent to you on January 7, 1992, and to date, we have not received a response from you. We are sending you a map with the proposed locations for three (3) groundwater monitoring wells (MW-8, MW-9 and MW-10) proposed to be installed on the subject property. After initial installation of wells, they will be monitored on a quarterly basis to determine changes in groundwater levels, and for sampling to determine presence of any groundwater contamination.

These monitoring wells will be an important source of information concerning soils and groundwater in the immediate area of ARCO Station 771 located at 899 Rincon Avenue, Livermore, California. The installation and maintenance of the wells will remain the responsibility of ARCO. Prior to drilling and installation of the wells, an underground utility line locating company will be contracted to locate underground utilities.

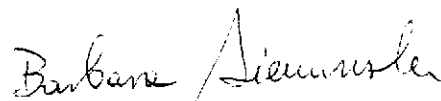
Please discuss this monitoring well installation with the property tenants and sign each copy of the attached ARCO Offsite Access Agreement and return them to us. ARCO will countersign the agreement and return a copy to you.

Request for Access
ARCO Station 771, Livermore, California


May 11, 1992
60000.09

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

Sincerely,
RESNA Industries



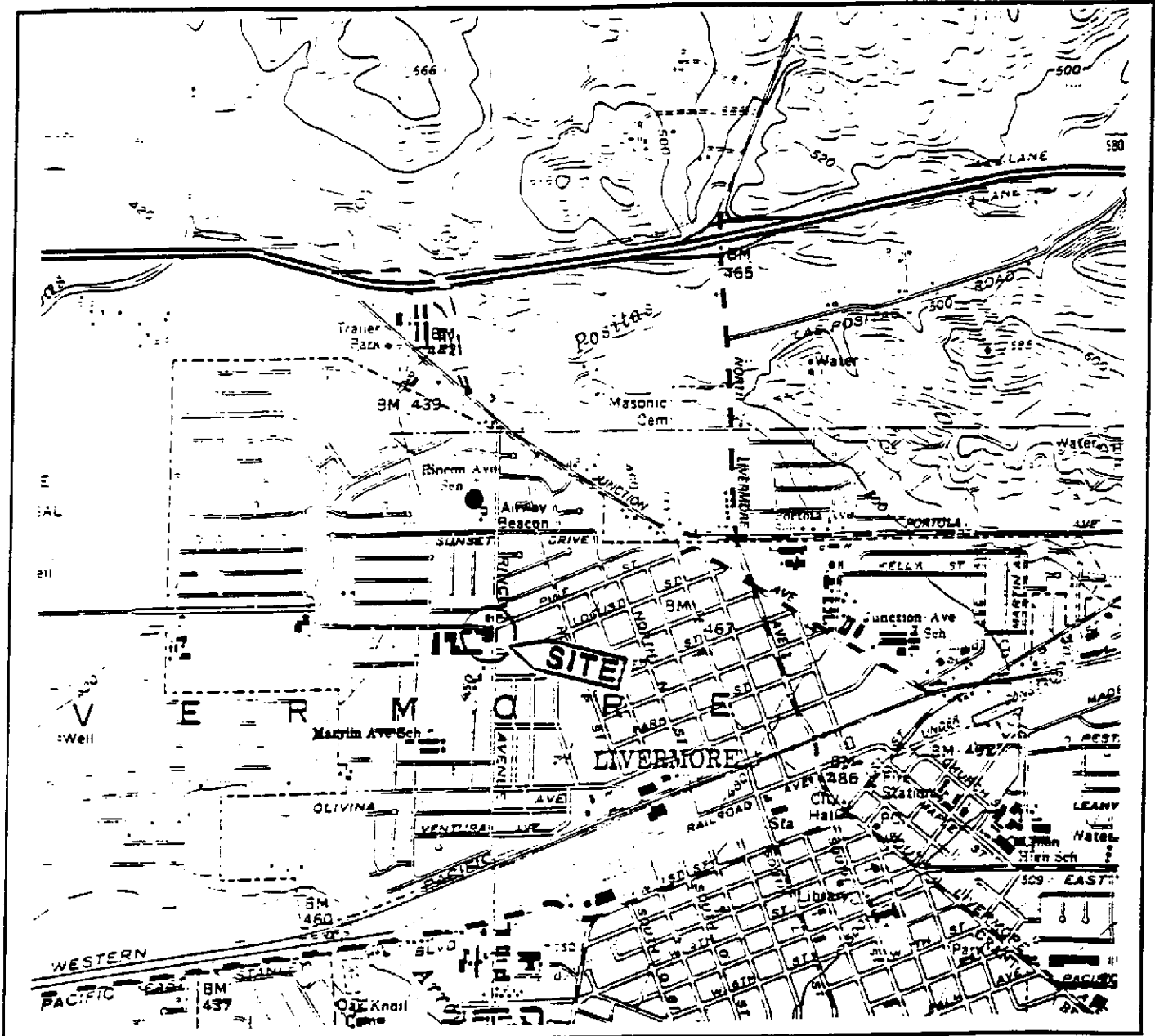
Barbara Sieminski
Asst. Project Geologist



Joel Coffman
Project Geologist

Enclosures: Plate 1, Site Vicinity Map
 Plate 2, Proposed Boring/Monitoring Well Locations
 Plate 3, Typical Monitoring Well Construction
 License Agreement Between Edward W. & Geraldine A. Rathburn and
 ARCO Products Company

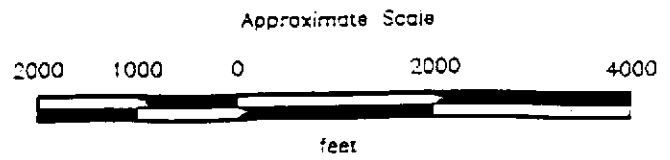
cc: Chuck Carmel, ARCO Products Company
 Chris Winsor, ARCO Products Company
 Susan Hugo, Alameda County Health Care Services Agency
 Eddy So, Regional Water Quality Control Board



Base: U.S. Geological Survey
 7.5-Minute Quadrangle
 Livermore, California
 Photorevised 1980

LEGEND

● = Site Location



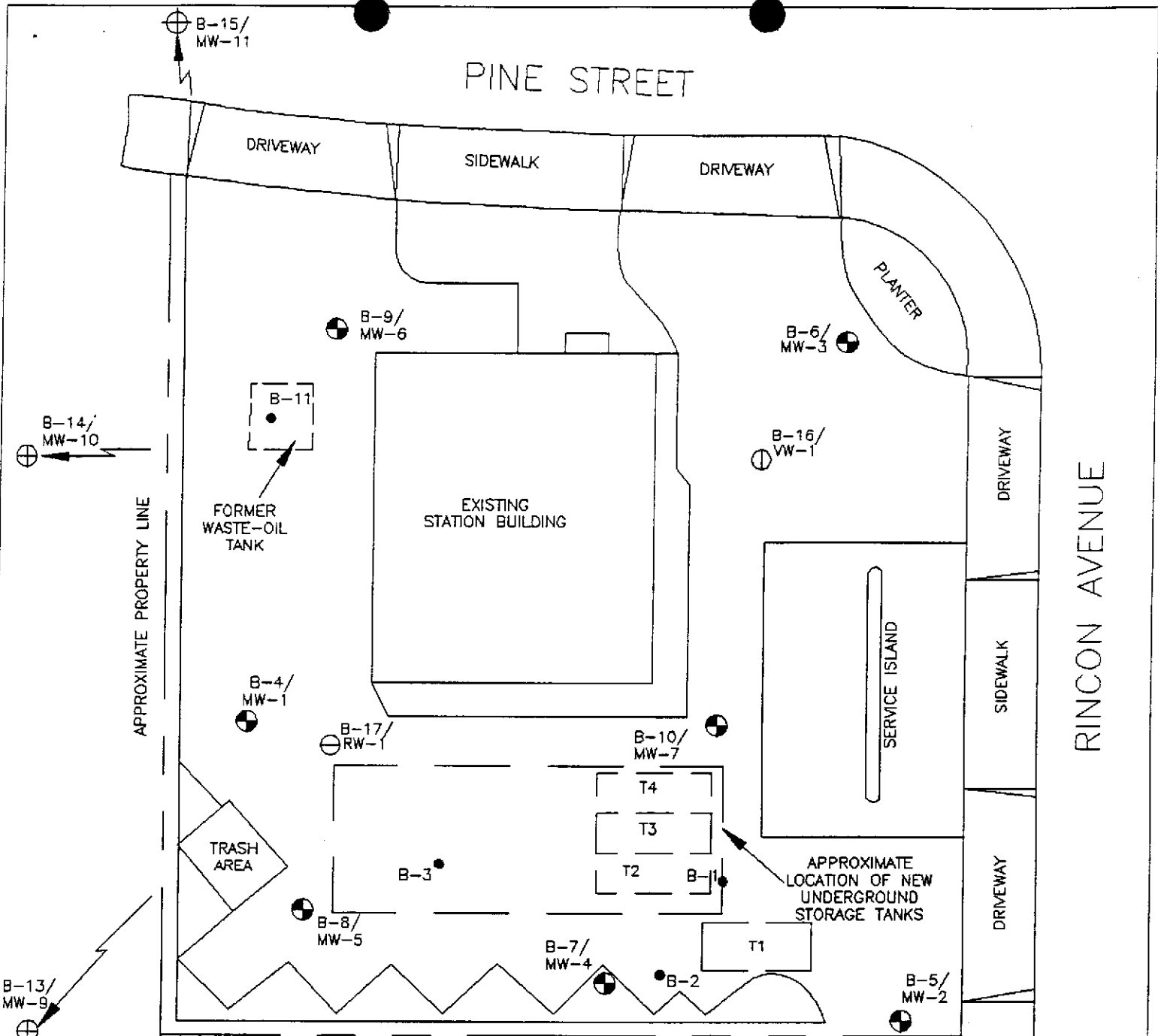
RESNA

PROJECT 60000.09

**SITE VICINITY MAP
 ARCO Station 771
 899 Rincon Avenue
 Livermore, California**

PLATE

1



EXPLANATION

- B-16/
VW-1 ⊕ = Proposed vapor extraction well
- B-17/
RW-1 ⊖ = Proposed recovery well
- B-15/
MW-11 ⊕ = Proposed boring/monitoring well
- B-10/
MW-7 ⊙ = Monitoring well
(RESNA, December 1990, June and July 1991)
- B-11 ● = Soil boring
(RESNA, February 1990, July 1991)
- [T4] = Former underground gasoline-storage tanks



Approximate Scale



Source: Surveyed by John Koch, Licensed Land Surveyor.

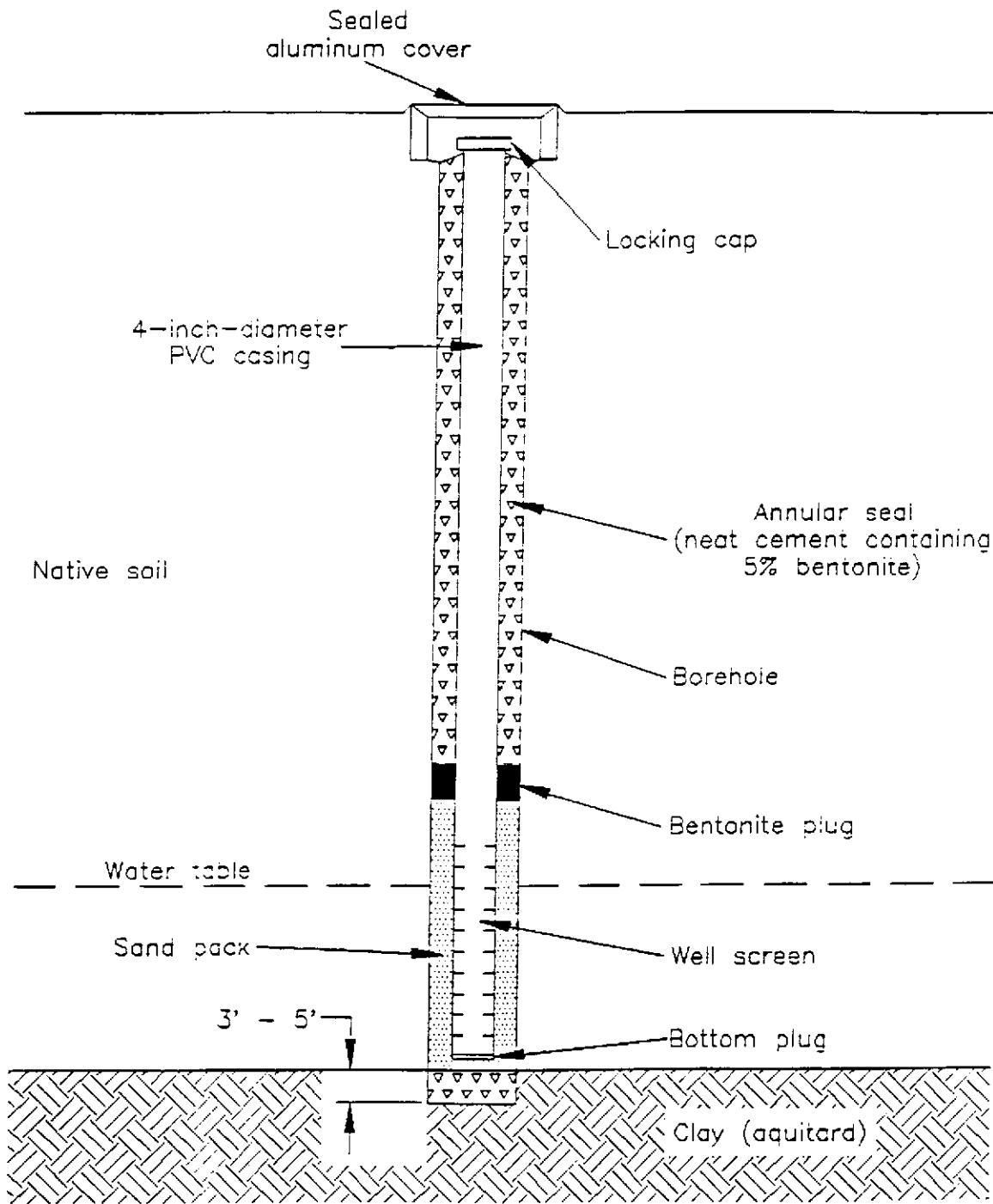
RESNA

PROJECT 60000 00

**PROPOSED BORING/
WELL LOCATIONS
ARCO Station 771
899 Rincon Avenue
Livermore, California**

**PLATE
2**

Ground-water monitoring well



Not to scale

RESNA

**TYPICAL MONITORING WELL
CONSTRUCTION
783 Rincon Avenue
Livermore, California**

3

PROJECT

60000.09



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

**LICENSE AGREEMENT
BETWEEN EDWARD W. & GERALDINE A. RATHBURN
AND ARCO PRODUCTS COMPANY**

This license Agreement is made on the 11th day of May, 1992, between Edward W. & Geraldine A. Rathburn, private owners, hereinafter referred to as "licensor" and ARCO Products Company, a division of Atlantic Richfield Company, hereinafter referred to as "licensee".

1. RECITALS

- 1.1 Licensor owns certain real property (the "Property") at 783 Rincon Avenue, Livermore, in the state of California.
- 1.2 Licensee desires to drill on a portion of the Property, three (3) groundwater wells as depicted on Plate 2, attached hereto and made part hereof.
- 1.3 The parties desire to enter into this License Agreement to allow licensee to install said groundwater wells on the Property.
- 1.4 Neither this License Agreement nor any of the terms hereof shall be construed as an admission of liability by Licensee for any contamination, alleged or otherwise, on the licensed area of any adjoining property.

2. AGREEMENT

Now, therefore, in consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree to and with each other as follows.

3. TERMS

- 3.1 Licensee may drill, use and backfill at its sole cost and expense, three (3) groundwater wells on the Property located at 783 Rincon Avenue, Livermore, California.
- 3.2 Said groundwater wells shall be completed as shown on Plate 3 attached hereto and made part hereof.

- 3.3 Licensee, upon prior notification to licensor, may enter the Property to monitor and sample the three (3) groundwater wells.
- 3.4 Licensee agrees not to permit any liens to stand against the Property for work done or materials furnished to licensee, and licensee agrees to indemnify and hold licensor harmless for same.
- 3.5 If the surface of the licensed are and/or the surface of licensor's adjacent real property and/or improvements thereon shall be disturbed by the emplacement or the backfill the licensee's groundwater wells, then said surface and/or improvements shall be promptly restored by licensee to their condition just prior to such disturbance.
- 3.6 Licensee shall, after completion, backfill said boring pursuant to this License Agreement, or after the groundwater wells are no longer useful to the investigation, destroy the groundwater well according to the standards set forth by the appropriate State agency.
- 3.7 Licensee agrees to indemnify, defend, and save licensor harmless from all liability, damage, expense, causes of action, suits, claims, or judgements resulting from injuries to person or damage to property on the licensed area or on adjoining streets and sidewalks which arise out of the act, failure to act, or negligence of licensee, its agents, employees, invitees, or guests in performing work under this License Agreement.
- 3.8 This License Agreement shall not constitute a deed or a grant of easement and shall not be deemed irrevocable or an easement by virtue of the work performed under or by reason of this license.
- 3.9 This License Agreement may be terminated by either party upon thirty (30) days prior written notice.

In witness whereof, the parties hereto have executed this License Agreement as of the day and year first above written.

ARCO Products Company

Edward W. & Geraldine A. Rathburn

By: _____

By: _____

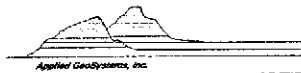
Title: _____

Title: _____

Date: _____

Date: _____

RESNA



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San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2435

EXPLANATION TO ARCO 771 REMEDIATION SCHEDULE

1). **ONSITE SUBSURFACE INVESTIGATION**

Preliminary investigations were completed prior to October 1991. A vapor extraction test (VET) was performed onsite in December 1991, report issued to the Alameda County Health Care Services Agency (ACHCSA) on January 7, 1992.

2). **TANK REMOVAL AND REPLACEMENT**

Onsite USTs were excavated in early January 1992. New tanks will be installed upon receiving ACHCSA's approval. ARCO has been awaiting ACHCSA approval since early January 1992.

3). **OFFSITE GROUNDWATER INVESTIGATION**

ARCO is currently in the process of submitting a work plan for offsite investigation to the Regional Water Quality Control Board (RWQCB), and ACHCSA for review and approval. Offsite investigation will commence upon gaining work plan approval, and proper encroachment permits and offsite access for installation of downgradient monitoring wells during 1992. These wells will delineate the extent of the offsite hydrocarbon plume. Based on previous experience our consultant has had in obtaining encroachment permits, the encroachment process will take four to six months.

4). **AQUIFER TEST**

An aquifer pump and recovery test and a report summarizing the results of the test will be completed and submitted to the ACHCSA, RWQCB for review and approval within three months of completion of the tank removal and replacement.

5). **REMEDIAL ACTION PLAN**

In January 1992, ARCO installed passive floating product skimmers as an interim remediation system in monitoring wells MW-1, MW-2 and MW-5. Results of the

vapor extraction test conducted in December 1991 indicated that vapor extraction is a viable soil remedial alternative. Based on these results and on the aquifer test to be completed, ARCO will design, permit, and install a vapor extraction system (VES) and a groundwater remediation system at this site.

A Remedial Action Plan (RAP) will be submitted and approved by the RWQCB, and the ACHCSA before the proposed soil and groundwater remediation systems will be installed. The RAP will describe the proposed remediation systems, their design, installation, and operation and maintenance. A preliminary schedule of work, including a construction schedule will be presented. It is anticipated that the regulatory agencies will review and approve the work plan within one month of receipt. The estimated remediation schedule for this site will be delayed if the aquifer test is delayed, if review of the RAP is delayed or, if after review of the RAP, the regulatory agencies involved have comments and require submittal of a revised RAP. The schedule also assumes that results of the offsite investigation will not impact the onsite remediation schedule.

6). PRELIMINARY AND DETAILED ENGINEERING DESIGN

The estimated schedule shows that preliminary design will be completed and submitted to the involved regulatory agencies with the RAP. The preliminary design assumes that only onsite remediation is needed. Preliminary design consists of analyzing site characterization data collected to date and developing a cost-effective conceptual design. The conceptual design consists of specifying the proposed vapor and groundwater extraction systems, the treatment system (type of abatement and location of remediation compound), and development of the process flow diagram (PFD). This information is used for environmental permitting and final design. It is anticipated that a thermal oxidizer system will be used as the treatment technology for soil remediation and aeration and liquid-phase carbon for groundwater remediation. Off-gas from the aeration tank will be abated by the thermal oxidizer system.

Work under the detailed engineering design includes: engineering calculations; bill of materials; preparation of Plans and Specifications, including site and remediation compound layouts; trench and section details; process and instrumentation diagram (P&ID) and a one line electrical diagram; in-house plan check and review; and one set of revisions to the Plans and Specifications by ARCO. Once the Plans and Specifications are finalized, planning and building permits are applied for and bids solicited from qualified contractors.

7). **PERMITTING**

Typically two types of permits are required for installation of the proposed soil and groundwater remediation systems; environmental, and planning and building permits. Environmental permits include: an Authority to Construct and Permit to Operate from the governing Air Board for systems where organic vapor emissions are likely (oil-water separators, aeration tanks, carbon (vapor phase), air strippers, and thermal or catalytic oxidizers); and a Wastewater Discharge Permit from the RWQCB or the local Publicly Owned Treatment Works (POTW) for discharge of treated effluent from the proposed groundwater remediation system to the storm drain or local City sewer.

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

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

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

Planning and building permits include submission of the complete set of Plans and Specifications to the local City Planning Building and Fire Departments for approval,

prior to construction and installation of proposed remediation systems. These permits are typically granted within 30 days of receipt of the Plans and Specifications.

Questions, comments and additional requirements are usually handled informally by visits, telephone, or fax. A Hazardous Materials Management Plan (HMMP) is required to be submitted to the City Hazmat Department or Fire Department if hazardous materials are to be stored on site (such as oil-water separators and above ground product storage tanks). This is submitted at the same time the building permit is applied for if necessary, and should be approved within the 30-day time frame.

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

8). EQUIPMENT SELECTION AND PROCUREMENT

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

9). SYSTEM CONSTRUCTION AND STARTUP

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

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

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

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

10). SYSTEM OPERATION AND MAINTENANCE

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

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

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

11). PERFORMANCE EVALUATION

Yielded well capture zones, vapor extraction flow rates, radius of influence, influent and effluent analytical data are reviewed to evaluate the efficiencies of the soil and groundwater remediation systems. On the basis of this evaluation, it may be necessary to add new vapor or groundwater extraction wells and/or adjust treatment system parameters. Additional wells may be desirable if the yielded zones of capture

do not overlap to provide additional removal capability and/or to cost effectively speed up site cleanup.

The schedule assumes that the performance evaluation will show that the remediation system(s) will effectively remove hydrocarbons from areas of impacted soil and groundwater and will reduce extracted concentrations significantly over time. It also assumes that additional on or offsite vapor and groundwater extraction wells are not required to effectively remediate impacted areas, once the treatment system is operational.

12). SYSTEM SHUTDOWN: SOIL REMEDIATION SYSTEM

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

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

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

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

14). SITE CLOSURE

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

The schedule assumes that site closure involves only drilling of confirmation borings, confirmation of verification monitoring data and that no risk assessment will be

required. It also assumes that site closure is dependent on agency concurrence within one year following completion of verification monitoring.

20200



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

April 14, 1992
0407SHUG.771
61026.01

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

March 1992 Activities

- o Submitted Addendum Three to Work Plan for additional onsite and initial offsite subsurface investigation to ARCO and governing regulatory agencies.
- o Telecom with Ms. Linda Sunnabrog (City of Livermore) to ask if street encroachment permit for MW-11 is still valid. She didn't know, but she said to call Mr. Cecil Stickney who is the case inspector. Called him and he said that the encroachment permit is still valid and it is good for ninety days of its issuance (2/6/92). Mr. Stickney said to notify him twenty-four hours before drilling the well to schedule for inspection. He also said that only soft safety devices should be used on the street for traffic control.
- o Submitted well permit application to Alameda County Flood Control and Water Conservation District (ACFCWCD), Zone 7.
- o Scheduled drilling for early April 1992.

- Resumed monthly observation of Horner EZY Floating Product Skimmers in wells MW-1, MW-2, and MW-5 following completion of tank and product line replacement activities.
- Performed quarterly groundwater sampling and monitoring.
- Attempted to contact Ms. Susan Hugo of Alameda County Health Care Services Agency (ACHCSA) to discuss Addendums to Work Plan for the subject site numerous times, but could not get in contact with her (phoned on March 28, 23, 26, and 30, 1992).
- Informed Underground Services Alert (USA) underground alert of the scheduled drilling, contacted an ARCO Sales Representative, and station manager to inform them about the scheduled drilling.
- Completed removal and replacement of underground storage tanks; product line removal and replacement and installation of subgrade vapor extraction system (VES) piping.
- Initiated a design and drawing package for the proposed VES. The package consists of equipment specified, D-size drawings of the site and remediation system layouts, trench and section details, process and instrumentation diagrams, and a one-line electrical diagram.

Work Anticipated for April 1992

- Monthly groundwater monitoring will continue.
- Submit Fourth Quarter 1991 Quarterly Groundwater Monitoring Report to governing regulatory agencies.
- Proceed with completion and submittal of an Authority-to-Construct/Permit-to-Operate application to the Bay Area Air Quality Management District (BAAQMD) for the proposed VES.
- Continue to attempt to gain access from adjoining property owners to install proposed offsite monitoring wells MW-8, MW-9, and MW-10.
- Drill and install onsite vapor extraction well VW-1, onsite groundwater recovery well RW-1, and offsite well MW-11.

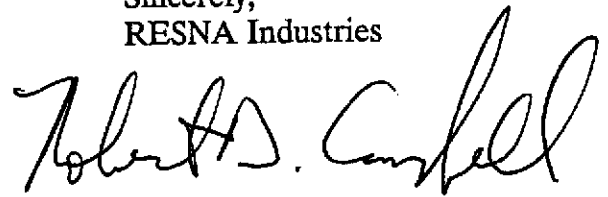
Site Status Update
ARCO Station 771, Livermore, California

April 14, 1992
61026.01

- Develop recovery well RW-1 and offsite monitoring well MW-11.
- Schedule aquifer pump and recovery test at the site.

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

Sincerely,
RESNA Industries



Robert D. Campbell
Staff Geologist



Joel Coffman
Project Geologist

cc: Mr. Michael Whelan, ARCO Products Company

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

92 APR 15 PM 2:17

TRANSMITTAL

TO: MS. SUSAN HUGO
ACHGSA-DEH
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94621

DATE: 4/14/92
PROJECT NUMBER: 61026.01
SUBJECT: SITE STATUS UPDATES FOR
VARIOUS ARCO STATIONS (SEE BELOW)

FROM: JOEL COFFMAN
TITLE: PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1 EA	4/14/92		SITE STATUS UPDATES FOR ARCO STATION 374 IN OAKLAND, 6113 IN LIVERMORE, 6148 IN OAKLAND, AND 771 IN LIVERMORE.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: CC: MR. MICHAEL WHELAN, ARCO PRODUCTS COMPANY

Copies: 1 to project file no. 61026.01

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

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

April 13, 1992

92 APR 14 PM 2:00

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

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

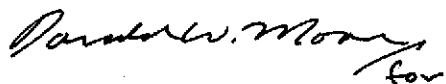
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the first quarter of 1992; also included are projected site activities for the second quarter of 1992 and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

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

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

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

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

UST LEAK
SITE UPDATE

Date of Last Review/Update January 6, 1992

Current Date April 6, 1992

SITE IDENTIFICATION

Name ARCO Service Station 771 Case No. _____
Address 822 Flinn Avenue / Flinn Street
Street Number _____ Street _____
City Livermore ZIP Code 94550
County Alameda Substance Gasoline
Local Agency Alameda County Health Care Services Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSONNEL

CASE TYPE

Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)

<input type="checkbox"/> No Action Taken	Date	_____
<input checked="" type="checkbox"/> Leak Being Confirmed	Date	<u>8/87</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date	<u>9/24/90</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Underway	Date	<u>12/90</u>
<input checked="" type="checkbox"/> Pollution Characterization	Date	<u>7/91</u>
<input type="checkbox"/> Remediation Plan	Date	_____
<input type="checkbox"/> Remedial Action Underway	Date	_____
<input type="checkbox"/> Post Remedial Action Monitoring	Date	_____
<input type="checkbox"/> Case Referred to Regional Board	Date	_____
<input type="checkbox"/> Case Referred to Dept. of Health Services	Date	_____
<input type="checkbox"/> Case Closed	Date	_____

COMMENTS/MILESTONES:

Vapor extraction test performed on 12/12/91. Vapor extraction test report reviewed by ACHCSA. Submittal of remedial action plan for interim soil remediation.

RECENT ACTIVITIES/FINDINGS:

Last Quarter Activities: Vapor extraction test performed on 12/12/91. Vapor extraction test report in review. Submittal of proposal to design and permit a groundwater remediation system on 12/14/91. Underground gasoline storage tank removal and replacement initiated on 12/23/91.

Current Quarter Activities: Installed Horner EZY floating product skimmer in wells MW-1, MW-2 and MW-5 on 1/8/92. Drafted Addendum Work Plan Two 1/13/92. Submitted Addendum Three to work plan to regulatory agencies for installation of three offsite wells, one onsite vapor well and recovery well, and an aquifer and pump test. Submitted a remedial action plan for interim soil remediation on 1/31/92. Initiated design and permitting of VES. Installed subgrade VES and future groundwater remediation system piping in conjunction with underground storage tank removal and replacement.

ANTICIPATED ACTIVITIES:

Next Quarter Activities: Continue quarterly groundwater monitoring, and prepare quarterly groundwater monitoring report. Drill and install a vapor well and recovery well onsite. Upon gaining offsite access, drill and install offsite wells.

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

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Addendum Three to Workplan 60000.09	3/9/92	RESNA
Addendum Two to Workplan for Preliminary Design of a Vapor Extraction System 60000.12	1/31/92	RESNA
Letter Report on Vapor Extraction Test 60000.07	1/3/92	RESNA
Letter Report on Quarterly Groundwater Monitoring, Third Quarter 1991. 60000.06	11/22/91	RESNA
Report Additional Subsurface Investigation 60000.06	10/17/91	RESNA
Letter Report on Quarterly Ground- Water Monitoring, Second Quarter 1991 60000.06	7/11/91	RESNA
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation AGS 60000.06	5/15/91	RESNA/Applied GeoSystems
Report on Supplemental Subsurface Investigation AGS 60000.04	4/12/91	RESNA/Applied GeoSystems
Work Plan Supplemental Subsurface Investigation AGS 60000-3	8/31/90	Applied GeoSystems
Report on Limited Subsurface Environmental Assessment AGS 60000-1	6/22/90	Applied GeoSystems

Atlantic Richfield Co.
90 Box 2485
Los Angeles 90051

DATE: 4/8/92
TO : Local Oversight Program
FROM: Eva
SUBJ: Transfer of Eligible Oversight Case

Site name: ARCO # 771
Address: 899 Rincon Av city Livermore zip 94550
Closure plan attached? Y N DepRef remaining \$ _____
DepRef Project # _____ STID #(if any) 3873
Number of Tanks: 1 removed? Y N Date of removal 8/87
Leak Report filed? Y N Date of Discovery _____
Samples received? Y N Contamination: soil, water
Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents
Monitoring wells on site 3 Monitoring schedule? Y N
LUFT category 1 2 3 * H S C A R W G O
Briefly describe the following:
Preliminary Assessment Work plan approved June 1990 5/31/91
Remedial Action _____
Post Remedial Action Monitoring _____
Enforcement Action _____

Soil analysis 387 ppm TPH (1987)

Soil Borings 190 ppm TPH-G - Free floating product

1/8" in-gw grab sample (June 1990)

Jan 1991 - MW w/ floating product (0.16 feet)

~~FED~~ Need now to determine vert. + horiz. extent of contam. in
gw.

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name Arco Today's Date 8/28/92

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 899 Lincoln Blvd.

City Livermore Zip 94550 Phone _____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ___ i. Haz. Mat/Waste GENERATOR/TRANSPORTER
- ___ ii. Business Plans, Acute Hazardous Materials
- iii. Underground Tanks

1:00 - 2:15 PM

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

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N)
- ___ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|---|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Gndwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak def
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak def |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| New Tanks | ___ 7. Precis Tank Test 2643 |
| | Date: _____ |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing 2646 |
| | ___ 10. Ground Water. 2647 |
| ___ 11. Monitor Plan 2632 | |
| ___ 12. Access. Secure 2634 | |
| ___ 13. Plans Submit 2711 | |
| Date: _____ | |
| ___ 14. As Built 2635 | |
| Date: _____ | |

Comments:

Secondary Piping Tightness Test (Soap Test).

Vapor recovery - under 5 psi tanks - under 5 psi piping product line - 50 PSI appears lines are tight.

Rev 6/88

II, III

Contact: _____
 Title: _____
 Signature: _____

Inspector: James L. Hugo
 Signature: _____

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

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

II, III

Today's Date 2/26/92

Site ID # _____ Site Name Arc

Site Address 899 Lincoln Ave.

City Livermore Zip 94550 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks
- 3:30 - 5:30

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

Comments:

(Soap Test)
Primary Piping Tightness Test:
5 PSI - pressure on tank &
piping.

Randy tripped from Livermore
fire dept. at the site.

Piping (primary) appears to be
tight.

Next test of secondary piping
schedule 2/28/92 1:30 PM

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25506(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N) _____
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) _____
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|---|---|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Gndwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank tising |
| | 8) Annual Tank Testing
Daily inventory |
| | 9) Other _____ |
| New Tanks | <input type="checkbox"/> 7. Precis Tank Test 2643
Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing 2646 |
| | <input type="checkbox"/> 10. Ground Water. 2647 |
| <input type="checkbox"/> 11. Monitor Plan 2632 | |
| <input type="checkbox"/> 12. Access, Secure 2634 | |
| <input type="checkbox"/> 13. Plans Submit 2711
Date: _____ | |
| <input type="checkbox"/> 14. As Built 2635
Date: _____ | |

Rev 6/88

Contact: _____
 Title: _____
 Signature: _____

Inspector: _____
 Signature: Susan L. Hugo

II, III

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

27 92

Site ID # _____ Site Name Arco Station Today's Date 2/7/92

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 899 Rincon Ave.

City Livermore Zip 94550 Phone _____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cff.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

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

III. UNDERGROUND TANKS (Title 23)

- General
- ___ 1. Permit Application 25284 (H&S)
 - ___ 2. Pipeline Leak Detection 25292 (H&S)
 - ___ 3. Records Maintenance 2712
 - ___ 4. Release Report 2651
 - ___ 5. Closure Plans 2670

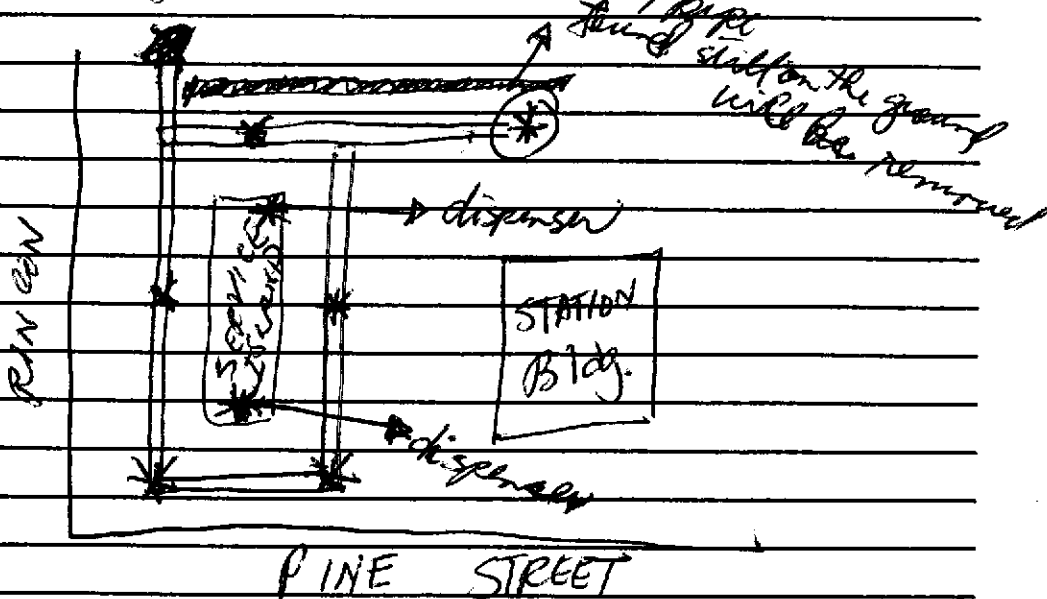
- Monitoring for Existing Tanks
- ___ 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Gndwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily inventory
 - 9) Other _____

- ___ 7. Precip Tank Test 2643
Date: _____
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing . 2646
- ___ 10. Ground Water. 2647

- New Tanks
- ___ 11. Monitor Plan 2632
 - ___ 12. Access. Secure 2634
 - ___ 13. Plans Submit 2711
Date: _____
 - ___ 14. As Built 2635
Date: _____

Comments:

Pipering associated with former
 underground tanks (4) removed.
 Piping trenches, samples collected (*)



* Stockpiled soil used as backfill have been reexcavated.

Rev 8/88

Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: _____

II, III



92 FEB 14 10 15

February 13, 1992

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way, Rm 200
Oakland, CA 94621

RE: ARCO Facility No. 771, Livermore, CA

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), Roux Associates (Roux) is requesting authorization to install new gasoline product lines and backfill the product line trenches at the above-referenced ARCO facility. The work will be performed by Golden West of Brentwood, California once authorization has been received.

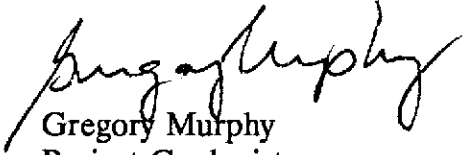
On December 30, 1991 four underground gasoline storage tanks were removed from the tank complex at the Site. Eight samples were collected from the base of the excavation and analyzed for TPH-G and BTEX. A request to install new tanks in the tank excavation was sent to the Alameda County Department of Environmental Health (ACDEH) on January 3, 1992. The results of the soil sampling from the base of the excavation was included in that letter. On January 17, 1992 a meeting was held between ARCO, Roux, RESNA, and ACDEH to discuss matters related to tank replacement and Site remediation. The ACDEH authorized the replacement of the tanks and requested additional sampling from the base of the excavation. Six additional samples were collected on January 20, 1992. New fuel tanks were installed on January 22, 1992. The sample locations and results of the sampling are in the attached Figure 4 and Table 1.

The existing product lines were removed and eight soil samples were collected on February 7, 1992. Sample locations were selected by Roux and Ms. Susan Hugo of the Alameda County Department of Health Services. Samples were submitted to Sequoia Analytical of Concord, California for analysis. Product line sample locations are presented on the attached Figure 4 and the analytical results are in the attached Table 1.

RESNA/Applied GeoSystems conducted a vent test at the Site and found soil conditions which favor vapor extraction. Wells exist in the vicinity of the product lines and pump islands providing extraction points from which to remove petroleum hydrocarbons in the soil. ARCO plans to install and operate a vapor extraction system to remediate petroleum hydrocarbons in soil at the Site.

We would like to begin installing new product lines and backfilling the product line trenches as soon as possible and would appreciate your prompt review of this request. Please call if you require additional information.

Sincerely,
ROUX ASSOCIATES



Gregory Murphy
Project Geologist



Dean A. Richesin, C.E.G.
Principal-in-Charge

cc: Mr. Charles Carmel, ARCO

Doc# AR135W01

**Table 1. Soil Sample Analytical Results
ARCO Facility No. 771 Livermore, California**

Sample Number	Date Sampled	Sample Depth	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Organic Lead
Tank Excavation Samples:								
T1A	12/30/91	15	[REDACTED]	[REDACTED]	28	24	210	NA
T1B	12/30/91	15	1.4	0.019	0.015	0.0089	0.2	NA
T2A	12/30/91	16	[REDACTED]	1.3	9.4	8.6	94	NA
T2B	12/30/91	16	ND	ND	ND	ND	ND	NA
T3A	12/30/91	14	45	0.089	1.2	0.52	4.7	NA
T3B	12/30/91	14	1.3	0.0097	0.045	0.023	0.24	NA
T4A	12/30/91	14	[REDACTED]	26	470	170	1,100	NA
T4B	12/30/91	14	2.4	0.0095	0.05	0.041	0.33	NA
TP-1	1/21/92	18	[REDACTED]	ND	0.059	ND	1.4	ND
TP-2	1/21/92	18	2.6	0.0057	0.012	0.012	0.12	ND
TP-3	1/21/92	18	1.8	0.0058	0.011	0.0071	0.053	ND
TP-4	1/21/92	18	1.4	0.0052	0.02	0.0094	0.092	ND
TP-5	1/21/92	18	1.5	0.0062	0.036	0.016	0.14	ND
TP-6	1/21/92	18	[REDACTED]	ND	2.5	1.5	47	ND
Product Line Samples:								
L1	2/7/92	1.5	ND	ND	0.035	ND	ND	ND
L2	2/7/92	1.5	[REDACTED]	0.35	30	26	200	ND
L3	2/7/92	0.5	[REDACTED]	0.091	0.28	0.1	0.93	ND
L4	2/7/92	1.5	2.2	0.0093	0.52	0.011	0.061	ND
L5	2/7/92	1.5	ND	ND	ND	ND	ND	ND
L6	2/7/92	1.5	ND	ND	ND	ND	ND	ND
L7	2/7/92	0.5	[REDACTED]	ND	0.21	ND	26	ND
L8	2/7/92	1.5	1.2	ND	0.027	ND	0.0068	ND

TPH-G = Low to Medium Boiling Point Hydrocarbons by USEPA Method 8015
quantitated against a gasoline standard.

BTEX by USEPA Method 8020.

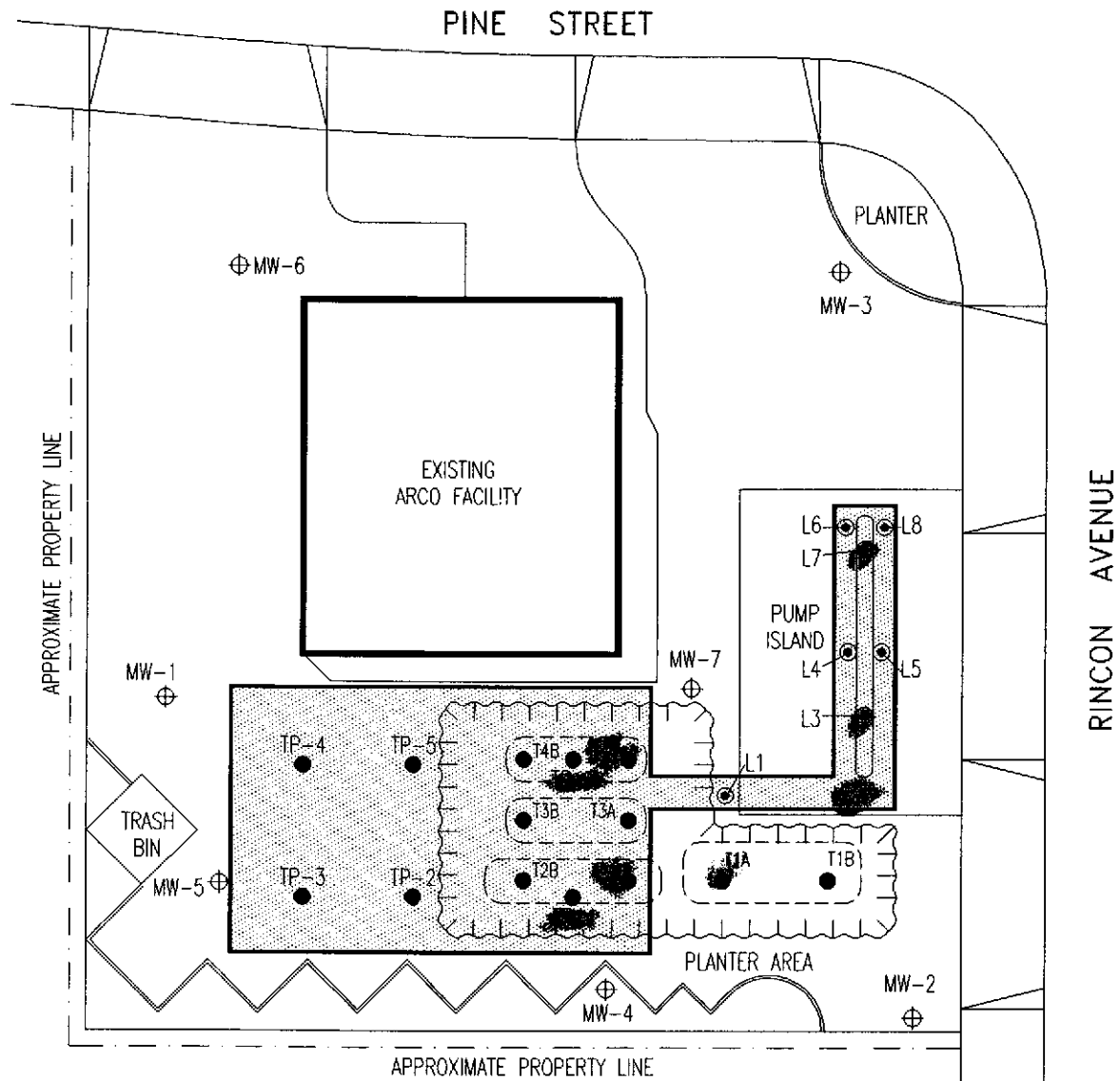
Organic lead by Cal. LUFT Manual 12/87

ND = Not detected.

NA = Not analyzed.


All analyses reported in parts per million.

Sample depth in feet below ground surface.



EXPLANATION

⊕ MW-5 MONITORING WELL LOCATION AND DESIGNATION

 NEW TANK COMPLEX EXCAVATION AND PRODUCT LINE TRENCHES.

 TANK COMPLEX EXCAVATION.

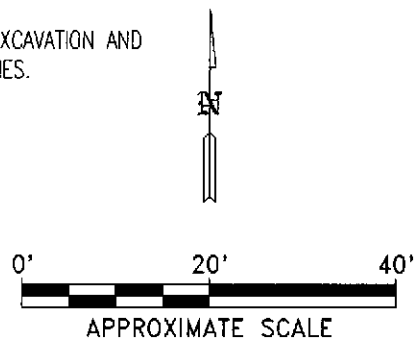
 FORMER LOCATION OF UNDERGROUND STORAGE TANKS.


L1 • PRODUCT LINE SAMPLE LOCATION AND DESIGNATION.

T2B • EXCAVATION SAMPLE LOCATION AND DESIGNATION

SOURCE:

MAP MODIFIED FROM RESNA CONSULTANTS, 1991.



 ROUX ASSOCIATES, INC. ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: G.M.	PREPARED FOR: ARCO PRODUCTS COMPANY	FIGURE 4
	PREPARED BY: R.P.	TITLE: SITE PLAN AND PRODUCT LINE SAMPLE LOCATIONS	
	PROJECT MNGR. G.M.	ARCO FACILITY NO. 771	
	DATE: 01/92		
	SCALE: AS SHOWN		
PROJECT NO. A135W01			
FILE NAME: AR_771XX			

ENVIRONMENTAL CONSULTING
AND MANAGEMENT

ROUX ASSOCIATES*FAX TRANSMITTAL*

1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520

Date: 2/13/92

To: Susan Hugo

Company: Alameda Co.

FAX No: 568-3706

From: Greg Murphy

Project No.: A135W07
Roux Associates, Inc.

Fax No: 510-687-1258

Phone No: 510-602-2333

Number of pages including cover sheet: 5

Comments:

Request for trace product line backfilling
and installation of new product line's
ARLO Facility #771, Rincan Ave, Livermore, CA

mg

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES



1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520 510 602-2333 FAX # 510 687-1258

February 13, 1992

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way, Rm 200
Oakland, CA 94621

RE: ARCO Facility No. 771, Livermore, CA

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), Roux Associates (Roux) is requesting authorization to install new gasoline product lines and backfill the product line trenches at the above-referenced ARCO facility. The work will be performed by Golden West of Brentwood, California once authorization has been received.

On December 30, 1991 four underground gasoline storage tanks were removed from the tank complex at the Site. Eight samples were collected from the base of the excavation and analyzed for TPH-G and BTEX. A request to install new tanks in the tank excavation was sent to the Alameda County Department of Environmental Health (ACDEH) on January 3, 1992. The results of the soil sampling from the base of the excavation was included in that letter. On January 17, 1992 a meeting was held between ARCO, Roux, RESNA, and ACDEH to discuss matters related to tank replacement and Site remediation. The ACDEH authorized the replacement of the tanks and requested additional sampling from the base of the excavation. Six additional samples were collected on January 20, 1992. New fuel tanks were installed on January 22, 1992. The sample locations and results of the sampling are in the attached Figure 4 and Table 1.

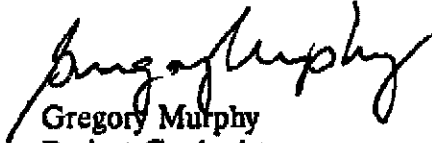
The existing product lines were removed and eight soil samples were collected on February 7, 1992. Sample locations were selected by Roux and Ms. Susan Hugo of the Alameda County Department of Health Services. Samples were submitted to Sequoia Analytical of Concord, California for analysis. Product line sample locations are presented on the attached Figure 4 and the analytical results are in the attached Table 1.

RESNA/Applied GeoSystems conducted a vent test at the Site and found soil conditions which favor vapor extraction. Wells exist in the vicinity of the product lines and pump islands providing extraction points from which to remove petroleum hydrocarbons in the soil. ARCO plans to install and operate a vapor extraction system to remediate petroleum hydrocarbons in soil at the Site.

Doc# AR135W01

We would like to begin installing new product lines and backfilling the product line trenches as soon as possible and would appreciate your prompt review of this request. Please call if you require additional information.

Sincerely,
ROUX ASSOCIATES



Gregory Murphy
Project Geologist



Dean A. Richesin, C.E.G.
Principal-in-Charge

cc: Mr. Charles Carmel, ARCO

Doc# AR135W01

ROUX ASSOCIATES

Table 1. Soil Sample Analytical Results
ARCO Facility No. 771 Livermore, California

Sample Number	Date Sampled	Sample Depth	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Organic Lead
Tank Excavation Samples:								
T1A	12/30/91	15	1,500	1.3	28	24	210	NA
T1B	12/30/91	15	1.4	0.019	0.015	0.0089	0.2	NA
T2A	12/30/91	16	1,900	1.3	9.4	8.6	94	NA
T2B	12/30/91	16	ND	ND	ND	ND	ND	NA
T3A	12/30/91	14	45	0.089	1.2	0.52	4.7	NA
T3B	12/30/91	14	1.3	0.0097	0.045	0.023	0.24	NA
T4A	12/30/91	14	4,600	26	470	170	1,100	NA
T4B	12/30/91	14	2.4	0.0095	0.05	0.041	0.33	NA
TP-1	1/21/92	18	100	ND	0.059	ND	1.4	ND
TP-2	1/21/92	18	2.6	0.0057	0.012	0.012	0.12	ND
TP-3	1/21/92	18	1.8	0.0058	0.011	0.0071	0.053	ND
TP-4	1/21/92	18	1.4	0.0052	0.02	0.0094	0.092	ND
TP-5	1/21/92	18	1.5	0.0062	0.036	0.016	0.14	ND
TP-6	1/21/92	18	830	ND	2.5	1.5	47	ND
Product Line Samples:								
L1	2/7/92	1.5	ND	ND	0.035	ND	ND	ND
L2	2/7/92	1.5	750	0.35	30	26	200	ND
L3	2/7/92	0.5	41	0.091	0.28	0.1	0.93	ND
L4	2/7/92	1.5	2.2	0.0093	0.52	0.011	0.061	ND
L5	2/7/92	1.5	ND	ND	ND	ND	ND	ND
L6	2/7/92	1.5	ND	ND	ND	ND	ND	ND
L7	2/7/92	0.5	600	ND	0.21	ND	26	ND
L8	2/7/92	1.5	1.2	ND	0.027	ND	0.0068	ND

TPH-G = Low to Medium Boiling Point Hydrocarbons by USEPA Method 8015
quantitated against a gasoline standard.

BTEX by USEPA Method 8020.

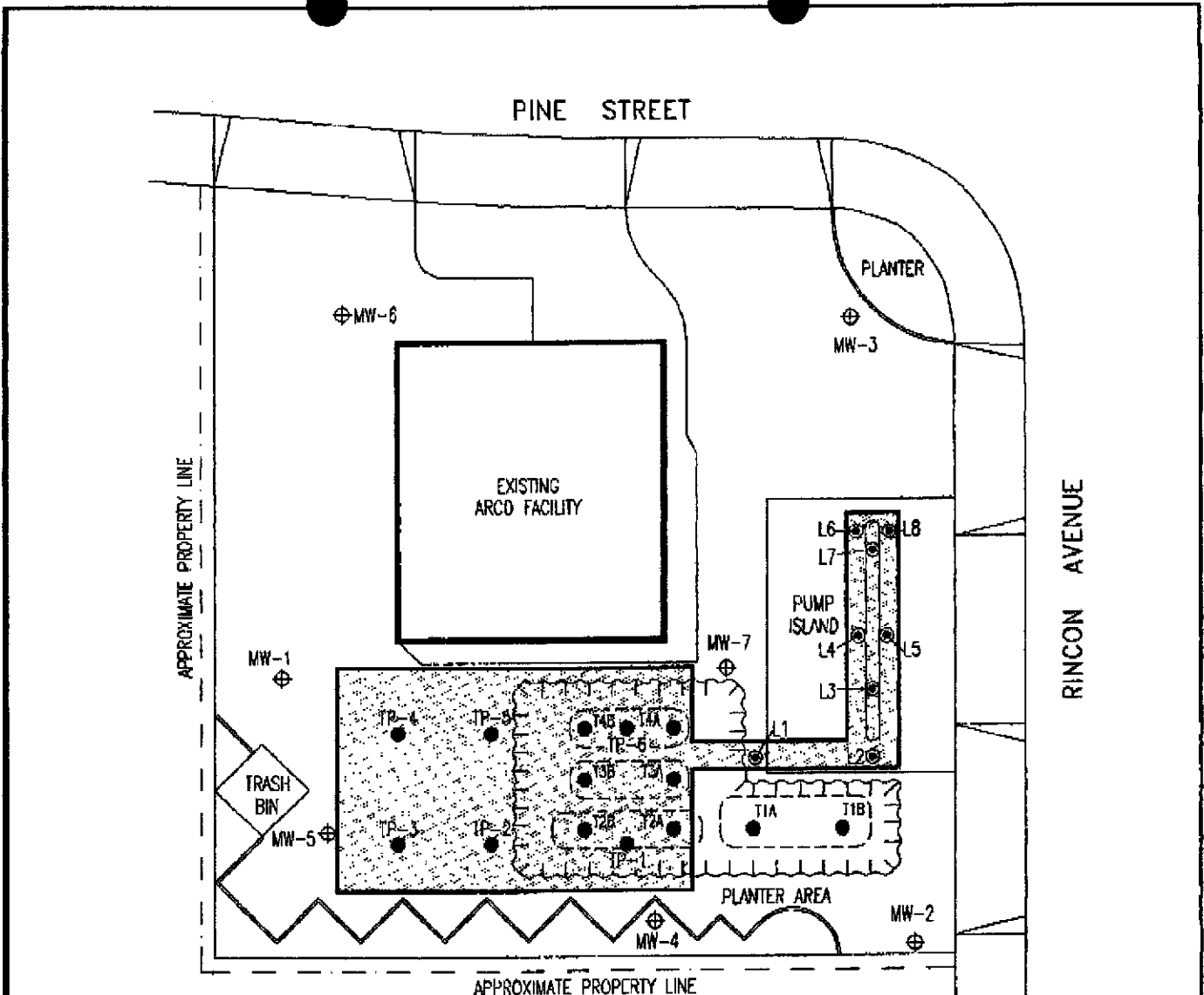
Organic lead by Cal. LUFT Manual 12/87

ND = Not detected.

NA = Not analyzed.

All analyses reported in parts per million.

Sample depth in feet below ground surface.



EXPLANATION

⊕ MW-5 MONITORING WELL LOCATION AND DESIGNATION

 NEW TANK COMPLEX EXCAVATION AND PRODUCT LINE TRENCHES.

 TANK COMPLEX EXCAVATION.

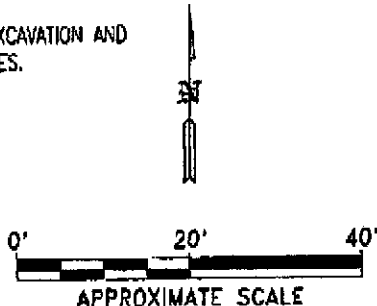
 FORMER LOCATION OF UNDERGROUND STORAGE TANKS.


L1 ● PRODUCT LINE SAMPLE LOCATION AND DESIGNATION.

T2B ● EXCAVATION SAMPLE LOCATION AND DESIGNATION

SOURCE:

MAP MODIFIED FROM
RESNA CONSULTANTS, 1991.



 ROUX ASSOCIATES, INC. <small>ENVIRONMENTAL CONSULTING & MANAGEMENT</small>	COMPILED BY: G.M.	PREPARED FOR: ARCO PRODUCTS COMPANY	FIGURE <div style="font-size: 2em; text-align: center;">4</div>
	PREPARED BY: R.P.	TITLE:	
	PROJECT MNGR. G.M.	SITE PLAN AND PRODUCT LINE SAMPLE LOCATIONS	
	DATE: 01/92	ARCO FACILITY NO. 771	
	SCALE: AS SHOWN		
PROJECT NO. A135W01			
FILE NAME: AR_771XX			



RESNA

Working To Restore Nature

COPY

TRANSMITTAL

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

2/3 RF ENCROACH. PERMIT &

TO: CITY OF LIVERMORE
PUBLIC WORKS DEPARTMENT
3589 PACIFIC AVENUE
LIVERMORE, CALIFORNIA 94550

DATE: 2/3/92
PROJECT NUMBER: 60000.09
SUBJECT: ARCO STATION 771 AT
899 RINCON AVENUE, LIVERMORE, CALIF.

FROM: BARBARA SIEMINSKI
TITLE: STAFF GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1	1/31/92		REQUEST FOR STREET ENCROACHMENT PERMIT TO
			INSTALL MONITORING WELLS AND CONDUCT OFFSITE
			SUBSURFACE ENVIRONMENTAL INVESTIGATION
			AT THE ABOVE SUBJECT SITE.

THESE ARE TRANSMITTED as checked below:
 For review and comment Approved as submitted Resubmit ___ copies for approval
 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files _____

REMARKS: CC: MR. CHUCK CARMEL, ARCO PRODUCTS COMPANY
MR. CHRIS WINSOR, ARCO PRODUCTS COMPANY
MS. SUSAN HUGO, ACHCSA-DEH
MR. EDDY SO, RWQCB

Copies: 1 to project file no. 60000.09

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



A RESNA Company

RESNA

Working To Restore Nature

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

January 31, 1992
0103cliv
60000.09

City of Livermore
Public Works Department
3589 Pacific Avenue
Livermore, CA 94550

Subject: Request for Street Encroachment Permit to Install Monitoring Wells and Conduct Offsite Subsurface Environmental Investigation at 899 Rincon Avenue, Livermore, California for ARCO Products Company.

On behalf of ARCO Products Company (ARCO), RESNA Industries, Inc. (RESNA) is requesting a street encroachment permit to install and monitor one (1) groundwater monitoring well on the street adjacent to the property located at 899 Rincon Avenue, Livermore, California as part of an offsite subsurface environmental investigation. I am sending you a map with the proposed location for one (1) groundwater monitoring well (MW-11) proposed to be installed on Pine Street. After initial installation of the well, it will be monitored on a quarterly basis to determine changes in groundwater levels, and for sampling to determine presence of any groundwater contamination.

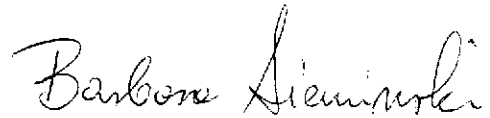
This monitoring well will be an important source of information concerning soils and groundwater in the immediate area of ARCO Station 771 located at 899 Rincon Avenue, Livermore, California. The installation and maintenance of the wells will remain the responsibility of ARCO. Prior to drilling and installation of the wells, an underground utility line locating company will be contracted to locate underground utilities.

Request for Street Encroachment Permit
ARCO Station 771, Livermore, California

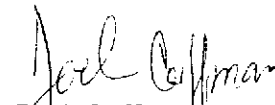
January 31, 1992
60000.09

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

Sincerely,
RESNA



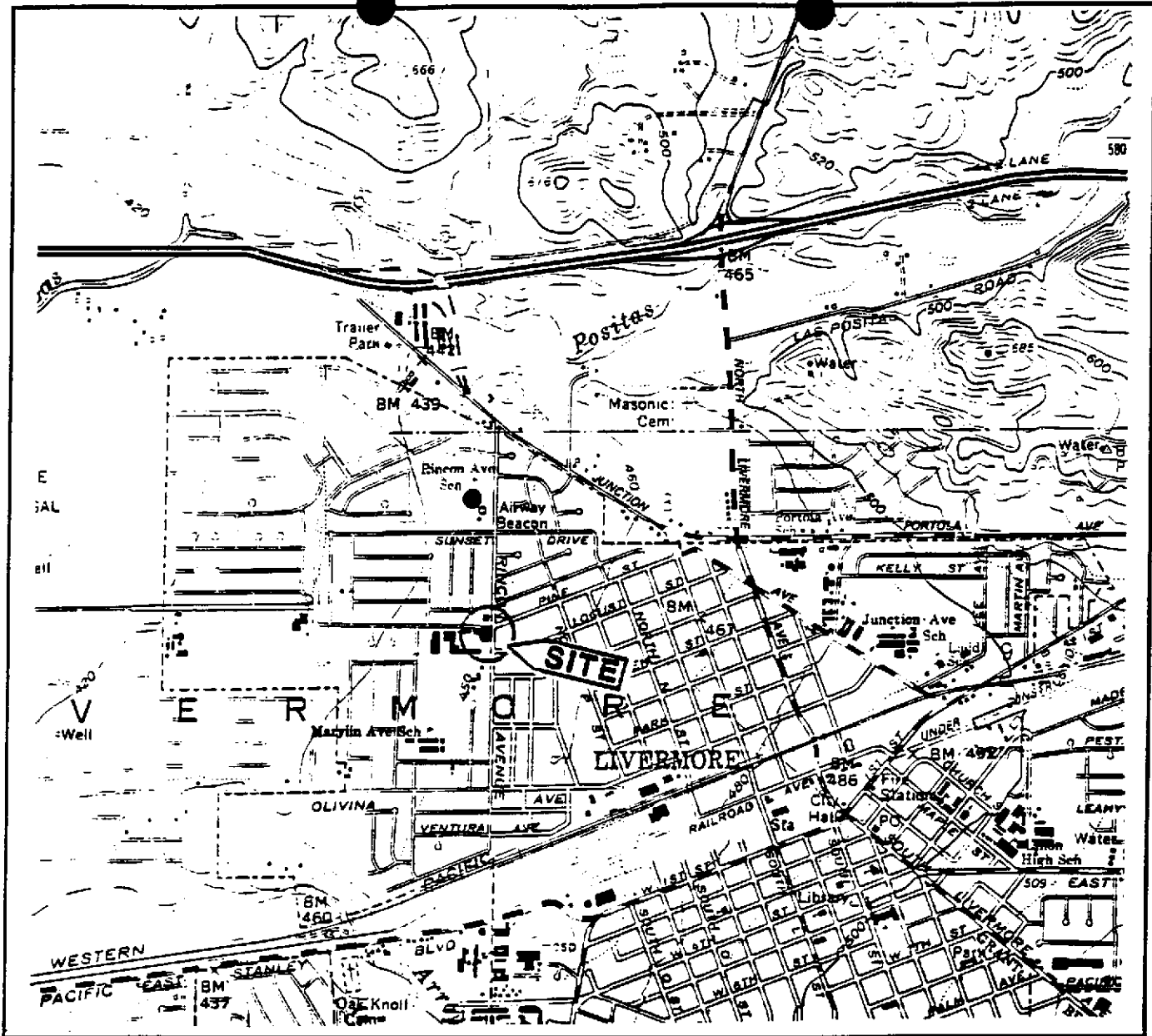
Barbara Sieminski
Staff Geologist



Joel Coffman
Project Geologist

Enclosures: Plate 1, Site Vicinity Map
 Plate 2, Proposed Boring/Monitoring Well Locations
 Street Encroachment Permit Application
 Check No. 515 for \$100 (fee)

cc: Chuck Carmel, ARCO Products Company
 Chris Winsor, ARCO Products Company
 Susan Hugo, Alameda County Health Care Services Agency
 Eddy So, Regional Water Quality Control Board



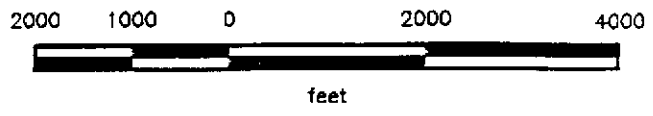
Base: U.S. Geological Survey
 7.5-Minute Quadrangle
 Livermore, California
 Photorevised 1980

LEGEND

● = Site Location



Approximate Scale



RESNA

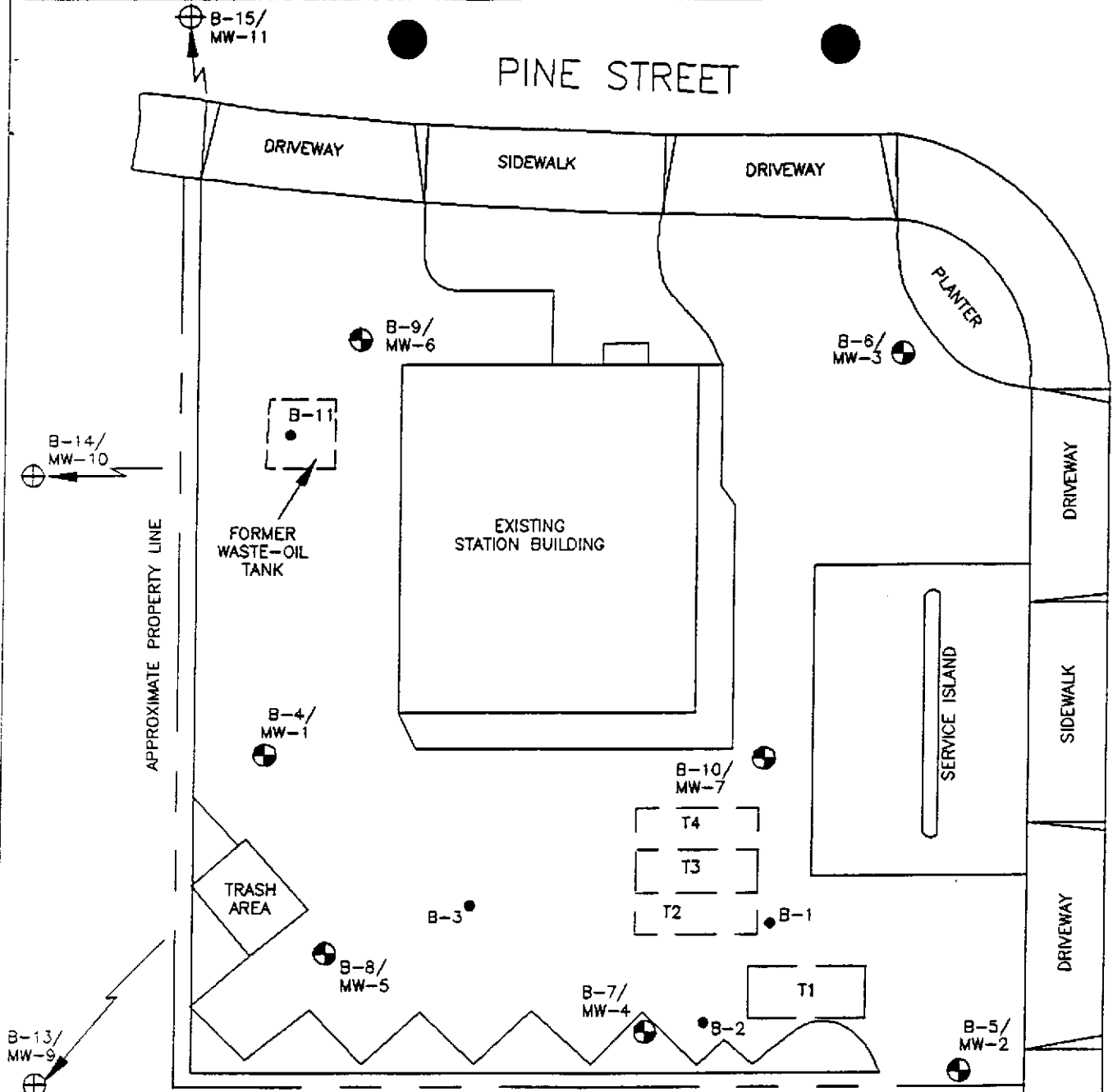
PROJECT 60000.09

**SITE VICINITY MAP
 ARCO Station 771
 899 Rincon Avenue
 Livermore, California**

**PLATE
 1**

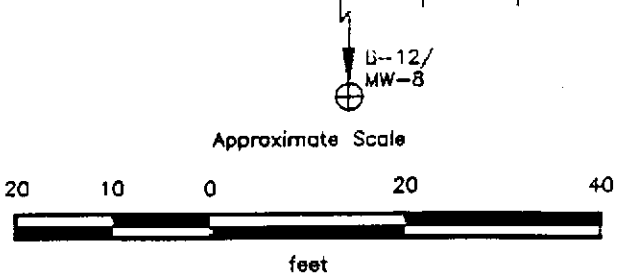
PINE STREET

RINCON AVENUE



EXPLANATION

- ⊕ = Proposed boring/monitoring well location
- = Monitoring well
(Applied GeoSystems,
December 1990, June, and July 1991)
- = Soil boring
(Applied GeoSystems,
February 1990, July 1991)
- [T4] = Underground gasoline-storage tank



Source: Surveyed by John Koch, Licensed Land Surveyor.

RESNA	PROPOSED BORING/ MONITORING WELL LOCATIONS ARCO Station 771 899 Rincon Avenue Livermore, California	PLATE 2
	PROJECT 60000.09	

CITY OF LIVERMORE
Public Works Department

STREET ENCROACHMENT PERMIT APPLICATION

PERMIT TO DO WORK IN ACCORDANCE WITH CHAPTER 12.08 OF THE LIVERMORE MUNICIPAL CODE AND SPECIFICATIONS AS ADOPTED BY THE CITY OF LIVERMORE AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

Applicant/Permittee: for ARCO Permit No.: _____
Name: RESNA Receipt No.: _____
Address: 3315 Almaden Exp, Suite 34 Fee: \$ 50.00 + \$50.00 = \$100⁰⁰
San Jose, CA 95118 Bond: \$ _____
Phone: (408) 264-7723

PLEASE READ THIS PERMIT CAREFULLY. KEEP IT AT THE WORK SITE. TO ARRANGE FOR INSPECTION, PHONE 373-5240 AT LEAST 24 HOURS BEFORE YOU START WORK.

JOB LOCATION immediate vicinity of ARCO Station 771, 899 Rincon Ave, Livermore, California (Plate 2)

DESCRIPTION OF WORK:

One 12-inch-diameter soil boring will be drilled and 4-inch-diameter groundwater monitoring well (MW-11) installed in the boring. After initial installation of the well, it will be monitored on a quarterly bases to determine changes in groundwater levels, and for sampling to determine presence of any groundwater contamination. The monitoring well will be an important source of information concerning soils and groundwater in the immediate area of ARCO Station 771.

Length of Excavation N/A l.f. Width 12" ft. Depth 45 ft.
Diameter

ATTENTION IS DIRECTED TO THE GENERAL PROVISIONS PRINTED ON THE REVERSE SIDE OF THIS PERMIT AND TO THE FOLLOWING SPECIAL REQUIREMENTS (to be filled in by Engineering Division):

Prosecution of Work: All work authorized by the permit shall be performed in a workmanlike, diligent, and expeditious manner, and must be completed to the satisfaction of the Director of Public Works.

Liability and Damages: The permittee shall be responsible for all liability imposed by law for personal injury or property damage which may arise out of the work permitted and done by permittee under this permit, or which may arise out of the failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Livermore, its officers and employees, and save them harmless in every way from all action at law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.

Signature of Permittee
By: Joel G. Rosa
Date: 1-31-92

City Engineer
By: _____
Date of Issue: _____

Work Completed: _____

Inspector: _____



A RESNA Company

3315 Almaden Expwy., #34 San Jose, CA 95118 (408) 264-7723

RESNA

Working To Restore Nature

EXPLANATION	AMOUNT
ENCROACHMENT PERMIT	100 00
60000.09	

11-35
1210

0515

PAY
AMOUNT
OF

ONE HUNDRED DOLLARS & ¹⁴/₁₀₀

DOLLARS

CHECK
AMOUNT

DATE	TO THE ORDER OF	DESCRIPTION	CHECK NUMBER
11/3/92	CITY OF LIVERMORE	ENCROACHMENT PERMIT FEE	515

\$ 100.00

PUBLIC WORKS DEPT. 3589 PACIFIC AVE.

LIVERMORE, CA 94550



BANK OF AMERICA Mission San Jose Branch 1095
P.O. BOX 3368 FREMONT, CA 94539

⑈000515⑈ ⑆121000358⑆ 10956⑈03218⑈

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

COPY
TRANSMITTAL

JAN 27 1992 **ES**

QUALITY CONTROL BOARD

TO: MR. CHUCK CARMEL
ARCO PRODUCTS COMPANY
P.O. BOX 5811
SAN MATEO, CALIFORNIA 94402

DATE: 1/23/92
 PROJECT NUMBER: 60000.09
 SUBJECT: ARCO STATION 771 AT
899 RINCON AVENUE, LIVERMORE,
CALIFORNIA

FROM: JOEL COFFMAN
 TITLE: PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1	1/23/92		MINUTES OF MEETING AT THE RWQCB TO DISCUSS FUTURE WORK AT THE ABOVE SUBJECT SITE.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: CC: PAUL SUPPLE, ROUX ASSOCIATES
KYLE CHRISTIE, ARCO PRODUCTS COMPANY
CHRIS WINSOR, ARCO PRODUCTS COMPANY
EDDY SO, RWQCB
SUSAN HUGO, ACHCSA

Copies: 1 to project file no. 60000.09

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



A RESNA Company

RESNA

Working To Restore Nature

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

January 23, 1992
0120ccar
60000.09

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

Subject: Minutes of Meeting at the Regional Water Quality Control Board (RWQCB) to discuss future work at ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Mr. Carmel:

This letter is a brief recapitulation of a meeting held at the RWQCB in Oakland, California at 1:30 pm on Friday, January 17, 1992 concerning future work at the subject site. Attending the meeting were Mr. Eddy So of the RWQCB, Ms. Susan Hugo of the Alameda County Health Care Services Agency (ACHCSA), Mr. Kyle Christie and Mr. Chuck Carmel of ARCO Products Company (ARCO), Mr. Paul Supple of Roux Associates, and Mr. Joel Coffman of RESNA Industries, Inc. (RESNA). Also present for a discussion concerning a separate ARCO station in Alameda County, California, was Mr. John Vargas of GeoStratagies Inc.

The meeting was held at the request of ARCO to attempt to resolve issues related to the underground gasoline storage tank and product delivery line removal and replacement at the site. Ms. Susan Hugo of ACHCSA had previously issued the permits for tank replacement at the site and had stopped work from proceeding at the site when gasoline impacted soils were encountered beneath the former tanks. This left the site effectively closed down with the former tank pit excavation left open.

The meeting convened and discussion began concerning the present status of the site. Mr. Christie of ARCO explained that the old product delivery piping was still in the ground at the site due to the limited access caused by the fact that the new tanks had not been allowed to be installed and there was not enough room to maneuver around the site or store anymore soils until these new tanks were installed and covered. Mr. Christie also explained that the product delivery lines would be excavated and removed **within two weeks** after the

tanks were properly installed. He also explained that vault boxes and remediation system piping would also be installed concurrently with the installation of the new product delivery lines. The vaults are covers for existing and future vapor and groundwater extraction wells. He explained it is easier to install these vaults and piping for the system while the station is closed undergoing major reconstruction (tank replacement) than to come back later and dig the site up again. Mr. Christie explained that space would be left between the new tanks and 12 inch diameter blank conductor casing installed in this space to aid the drilling and sampling of future confirmation borings in the tank pit area, as needed.

Ms. Hugo and Mr. So said at this point they do not intend to further hinder the tank replacement activities with the following stipulations:

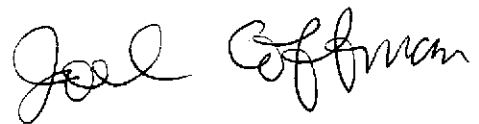
- The tank pit is to be dug out to approximately 18 feet depth and samples collected from the bottom of the tank pit for analysis, including analysis for lead, new tank installation is to proceed following this excavation and sampling;
- Should areas of contaminated soils be encountered during product delivery line removal and replacement, the area is to be excavated until contaminated soil is removed or a physical barrier is encountered which prevents further excavation;
- Within two weeks (by January 31, 1992), submit an interim remediation work plan to Susan Hugo of ACHCSA. This work plan shall outline the proposed vapor extraction system to be used at the site. It was stipulated that groundwater pumping and treatment should not be addressed in this interim remedial action plan but should be included in a future longterm remediation plan; *at the time of the RWQCB meeting, the work plan was not submitted.*
- In an additional addendum to the work plan, include installation of the previously proposed four offsite groundwater monitoring wells, an additional well downgradient of the tanks for future groundwater recovery, as close to within 10 feet distance from tanks as possible, and a possible additional vapor extraction well to be located in the area of the product delivery lines;
- Continue free product removal on a regular basis and record amount of total product removed. It was explained to Mr. So that this is currently being performed, that passive product skimmers have been installed in the wells containing free product, and that the total amount of free product removed from the site is currently being reported in quarterly groundwater monitoring reports; and

- Analyze groundwater samples from the well nearest the former waste-oil tank for total oil and grease (TOG), it was decided monitoring well MW-6 is the well from which TOG analysis will be performed on groundwater samples.

It was stipulated by Mr. So that the Remedial Action Plan for the site will thus be spread into several separate phases with the first phase to be the work plan for a vapor extraction system. Other phases will include system design and permitting, installation of offsite wells, and other work as determined to be necessary.

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

Very truly yours,
RESNA



Joel Coffman
Project Geologist

cc: Paul Supple, Roux Associates
Kyle Christie, ARCO Products Company
Chris Winsor, ARCO Products Company
Eddy So, Regional Water Quality Control Board
Susan Hugo, Alameda County Health Care Services Agency

They should put down the decisions we made in the meeting

(1) ...

*(2) Lower a basin is a remedial action, it will take a long time
approach to protect the groundwater in that area*

(3) If ...

*(4) To make sure ...
at the same time was not ...
of ...
if necessary ...
case*

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

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

II, III

Site ID # _____ Site Name Arco Today's Date 2/1/92

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 899 Rincon Ave
 City Livermore Zip 94576 Phone _____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

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

Comments:

Excavation pit shored.
16ft deep 48ft X 30ft (approx)
Sampling - 1 sample / 20 linear feet
for verification (6 soil sample - bottom)
induced in BTEX, TPH, &
organic lead.
Stock piled soil must be
re-examined.

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N) _____
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(i)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|---|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Gndwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| ___ 7. Precs Tank Test 2643 | |
| ___ 8. Inventory Rec. 2644 | |
| ___ 9. Soil Testing 2646 | |
| ___ 10. Ground Water. 2647 | |
| New Tanks | ___ 11. Monitor Plan 2632 |
| | ___ 12. Access. Secure 2634 |
| | ___ 13. Plans Submit 2711 |
| | ___ 14. As Built 2635 |

Rev 8/88

Contact: GREG MURPHY
 Title: Agency Rep
 Signature: GREG MURPHY

Inspector: _____
 Signature: Susan L Huger

ENVIRONMENTAL CONSULTING
AND MANAGEMENT

ROUX ASSOCIATES

1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520

FAX TRANSMITTAL

Date: 1/21/92

To: SUSAN HUGO

Company: ARCOEH

FAX No: (510) 568-3706

From: GREGORY MURPHY

Project No.: A135W01
Roux Associates, Inc.

Fax No: 510-687-1258

Phone No: 510-602-2333

Number of pages including cover sheet: 2**Comments:**

Susan -
As requested, here ^{are} ~~is~~ the analytical data for
~~so~~ stockpiled soil at ARCO #71 in Livermore.

/Greg.

**Table 2. Soil Stockpile Analytical Results
ARCO Facility No. 771 Livermore, California**

Sample Number	Date Sampled	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes
CS-1*	12/30/91	42	ND	0.012	0.011	0.45
CS-2*	12/30/91	190	ND	0.1	0.039	4.6
CS-3	12/30/91	19	ND	0.042	0.053	0.99
CS-4	12/30/91	120	0.047	0.3	0.28	12
CS-5 (=CS-4)	1/6/92	140	ND	0.052	0.06	4.3
CS-6	1/8/92	ND	ND	ND	ND	0.017
CS-7	1/8/92	4.2	ND	ND	ND	0.086
CS-8	1/8/92	5.1	ND	0.0066	0.0061	0.15
CS-9	1/10/92	3.2	ND	ND	ND	0.095
CS-10	1/10/92	7.2	ND	0.0062	ND	0.041
CS-11	1/10/92	9	ND	0.0086	ND	0.19
CS-12	1/10/92	14	ND	0.022	0.021	0.47
CS-13	1/10/92	7.5	ND	0.013	0.02	0.11
CS-14	1/10/92	26	ND	0.041	0.052	1.3
CS-15	1/10/92	3.3	ND	ND	ND	0.065
CS-16 (=CS-4)	1/10/92	440	ND	ND	0.56	25

FOOTNOTES:

TPH-G = Low to Medium Boiling Point Hydrocarbons by USEPA Method 8015
quantitated against a gasoline standard.

BTEX by USEPA Method 8020.

ND = Not detected.

All analyses reported in parts per million.

Soil corresponding to shaded composite samples have been disposed of at BFI Class 3 landfill.

* CS-1 and CS-2 were used to construct the ramp. They will be removed and resampled as soon as room is available on site.

All soil w/ less than 100 ppm TPH-G (except CS-1) has been disposed of at BFI Landfill in Livermore.

ACTIVITIES	1992												1993												1994												1995											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1) Onsite Subsurface Investigation	COMPLETED																																															
2) Tank Removal and Replacement	COMPLETED																																															
3) Offsite Groundwater Investigation													██████████																																			
4) Aquifer Test	NOT APPLICABLE AT THIS TIME																																															
5) Remedial Action Plan	COMPLETED																																															
6) Preliminary and Detailed Engineering Design	COMPLETED																																															
7) Soil and Groundwater Remediation Permitting	COMPLETED																																															
8) Equipment Selection and Procurement (including Bid Package Preparation and Selection)	COMPLETED																																															
9) System Construction and Startup: Soil and Groundwater													██████████ Groundwater not applicable at this time																																			
10) Soil Remediation System Operation and Maintenance (1 year)													██████████																																			
10a) Groundwater Remediation System: Operation and Maintenance (3 to 6 years)	NOT APPLICABLE AT THIS TIME																																															
11) Performance Evaluation													██████████																																			
12) System Shut Down: Soil Remediation																									██████████																							
13) System Shut Down: Groundwater Remediation (Begin One Year Verification Monitoring)																																					System shut down predicted for 1998-1999 Verification monitoring to be completed by 1999-2000											
14) Site Closure: Soil and Groundwater (1 year)																																					Estimated completion of site closure: 2000-2001											
EXPLANATION:	██████████												Probable schedule based on current deadlines and reasonable time necessary to complete the task. Assumes no delays.												██████████												Estimated schedule based on consultant's experience, on receiving regulatory and other approval on time, and based on other related work being completed.											

- 1) Onsite Subsurface Investigation:**
 Preliminary and additional onsite investigations, including vapor extraction test, completed prior to 1992.
- 2) Tank Removal and Replacement:**
 Tank removal and replacement completed during 1992.
- 3) Offsite Groundwater Investigation:**
 Offsite Investigation Report to be submitted by March 1, 1993. Originally proposed offsite monitoring well locations have been moved to new locations (due to denial of access by offsite property owner). Awaiting encroachment permits from City of Livermore.
 Assumes no additional delays in gaining offsite access or encroachment permits. Such delays are common and schedule may change.
 Completion of offsite investigation will not affect overall remediation schedule.
- 4) Aquifer Test:**
 Unable to perform aquifer test due to lack of water in some monitoring wells and slow recharge in the other wells and recovery well.
 Interim groundwater remediation will be addressed by soil vapor extraction at this time.
- 5) Remedial Action Plan:**
 RAP completed and approved by ACHCSA.
 Limited to soil vapor extraction at this time.
- 6) Preliminary and Detailed Engineering Design:**
 Groundwater remediation design not applicable due to lack of water in some monitoring wells and slow recharge in the other wells and recovery well.
 Free product removal will be addressed by interim soil remediation system.
 Design completed.

- 7) Permitting (Soil and Groundwater):**
 Hearings were held with the City of Livermore Planning Department prior to being granted building permits; hearings caused approximately 3 months delay.
 Assumes no future design changes will make additional permitting necessary, including modification of treatment system.
 Permitting of interim soil remediation system completed.
 Assumptions concerning groundwater remediation made prior to performance of aquifer test at site. Therefore, schedule pertaining to groundwater remediation may not reflect actual conditions and circumstances.
- 8) Equipment Selection and Procurement:**
 Assumes all equipment is available from stock and can be obtained within 4 to 6 weeks. Selected equipment approved by ACHCSA.
 Bids evaluated and contract awarded.
 Equipment for interim soil remediation system have been partially received and the remainder will be received by projected startup date.
- 9) System Construction and Startup (Soil and Groundwater):**
 Assumes no delays due to weather.
 Initial construction of system commenced in November 1992.
 Assumes no delays due to other contractors performing work onsite.
 Assumes no delays due to special permitting requirements.
 Assumes no delays due to utility installation.
 Interim soil remediation system startup by mid-February to mid-March 1993.
- 10 and 10a) System Operation and Maintenance:**
 It is anticipated that soil remediation can be completed in 1 year.
 Groundwater remediation system design not applicable at this time due to lack of water; groundwater impacted by gasoline hydrocarbons will be remediated by vapor extraction.

- Assumes that it is technically feasible to achieve cleanup levels.
 - Assumes no offsite remediation will be necessary.
 - Assumes no significant equipment breakdowns.
 - System for soil is expected to be in operation through March to May 1994.
- 11) Performance Evaluation:**
 Evaluation shows that system will effectively remove hydrocarbons from soil and groundwater impacted areas and will reduce concentrations significantly over time.
 Evaluation shows that additional vapor and groundwater extraction wells are not required to remediate impacted areas once the treatment system is operational.
 Performance evaluation to be completed by June to August 1993.
- 12) Shut Down of Soil Remediation System:**
 Cleanup will be completed in approximately 1 year after startup.
 Soil remediation system expected to be shut down by June to August 1994.
- 13) Shut Down of Groundwater Remediation System:**
 System on hold due to lack of water in wells.
 Cleanup will be completed approximately 3 to 6 years after startup.
 Only one year of verification groundwater monitoring will be required before site closure can be initiated.
 Groundwater remediation system expected to be shut down sometime in 1998 or 1999.
- 14) Site Closure:**
 Requirements for soil closure involve only drilling of confirmation borings and performance evaluation at time of system shutoff.
 Requirements for groundwater closure involves only groundwater monitoring and performance evaluation at system shutoff.
 Closure dependent on agency concurrence within 1 year following completion of verification monitoring.
 Assumes no risk assessment will be necessary.



ESTIMATED SOIL AND GROUNDWATER REMEDIATION IMPLEMENTATION SCHEDULE
ARCO Station 771
899 Rincon Avenue
Livermore, California

PLATE
A

January 14, 1992

92 JAN 15 PM 2:17

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

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

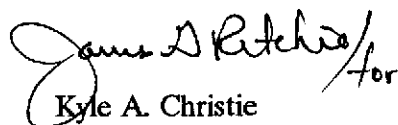
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1991; also included are projected site activities for the first quarter of 1992 and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

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

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

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

Sincerely yours,


for
Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report on Quarterly Groundwater Monitoring, Thrid Quarter 1991. 60000.06	11/22/91	RESNA
Report Additional Subsurface Investigation 60000.06	10/17/91	RESNA
Letter Report on Quarterly Ground- Water Monitoring, Second Quarter 1991 60000.06	7/11/91	RESNA
Work Plan and Addendum One to Work Plan for Subsurface Investigation and Remediation AGS 60000.06	5/15/91	RESNA/Applied GeoSystems
Report on Supplemental Subsurface Investigation AGS 60000.04	4/12/91	RESNA/Applied GeoSystems
Work Plan Supplemental Subsurface Investigation AGS 60000-3	8/31/90	Applied GeoSystems
Report on Limited Subsurface Environmental Assessment AGS 60000-1	6/22/90	Applied GeoSystems



92 JAN -9 AM 11:32

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

TRANSMITTAL

TO: EDWARD & GERALDINE RATHBURN
16918 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA 94578

DATE: 1/7/92
PROJECT NUMBER: 60000.09
SUBJECT: 783 RINCON AVENUE,
LIVERMORE, CALIFORNIA.

FROM: JOEL COFFMAN
TITLE: PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1	1/7/92		REQUEST FOR ACCESS TO INSTALL MONITORING WELLS AND CONDUCT OFFSITE SUBSURFACE ENVIRONMENTAL INVESTIGATION AT HTE ABOVE SUBJECT SITE.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: CC: CHUCK CARMEL, ARGO PRODUCTS COMPANY
CHRIS WINSOR, ARGO PRODUCTS COMPANY
GILL JENSEN, ALAMEDA COUNTY DISTRICT ATTORNEY'S OFFICE
SUSAN HUGO, ALAMEDA COUNTY HELATH CARE SERVICES AGENCY

Copies: 1 to project file no. 60000.09

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

COPY

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

January 7, 1992
0103erat
60000.09

Edward W. & Geraldine A. Rathburn
16918 East 14th Street
San Leandro, California 94578

Subject: Request for Access to Install Monitoring Wells and Conduct Offsite
Subsurface Environmental Investigation at 783 Rincon Avenue, Livermore,
California for ARCO Products Company.

Dear Mr. & Mrs. Rathburn,

On behalf of ARCO Products Company (ARCO), RESNA is requesting property access to install and monitor three (3) groundwater monitoring wells on the property located at 783 Rincon Avenue, Livermore, California as part of an offsite subsurface environmental investigation. I am sending you a map with the proposed locations for three (3) groundwater monitoring wells (MW-8, MW-9 and MW-10) proposed to be installed on the subject property. After initial installation of wells, they will be monitored on a quarterly basis to determine changes in groundwater levels, and for sampling to determine presence of any groundwater contamination.

These monitoring wells will be an important source of information concerning soils and groundwater in the immediate area of ARCO Station 771 located at 899 Rincon Avenue, Livermore, California. The installation and maintenance of the wells will remain the responsibility of ARCO. Prior to drilling and installation of the wells, an underground utility line locating company will be contracted to locate underground utilities.

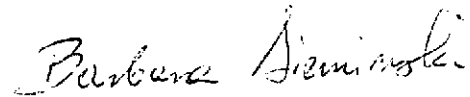
Please discuss this monitoring well installation with the property leasers and sign each copy of the attached ARCO Offsite Access Agreement and return them to us. ARCO will countersign the agreement and return a copy to you.

Request for Access
ARCO Station 771, Livermore, California

January 7, 1992
60000.09

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

Sincerely,
RESNA



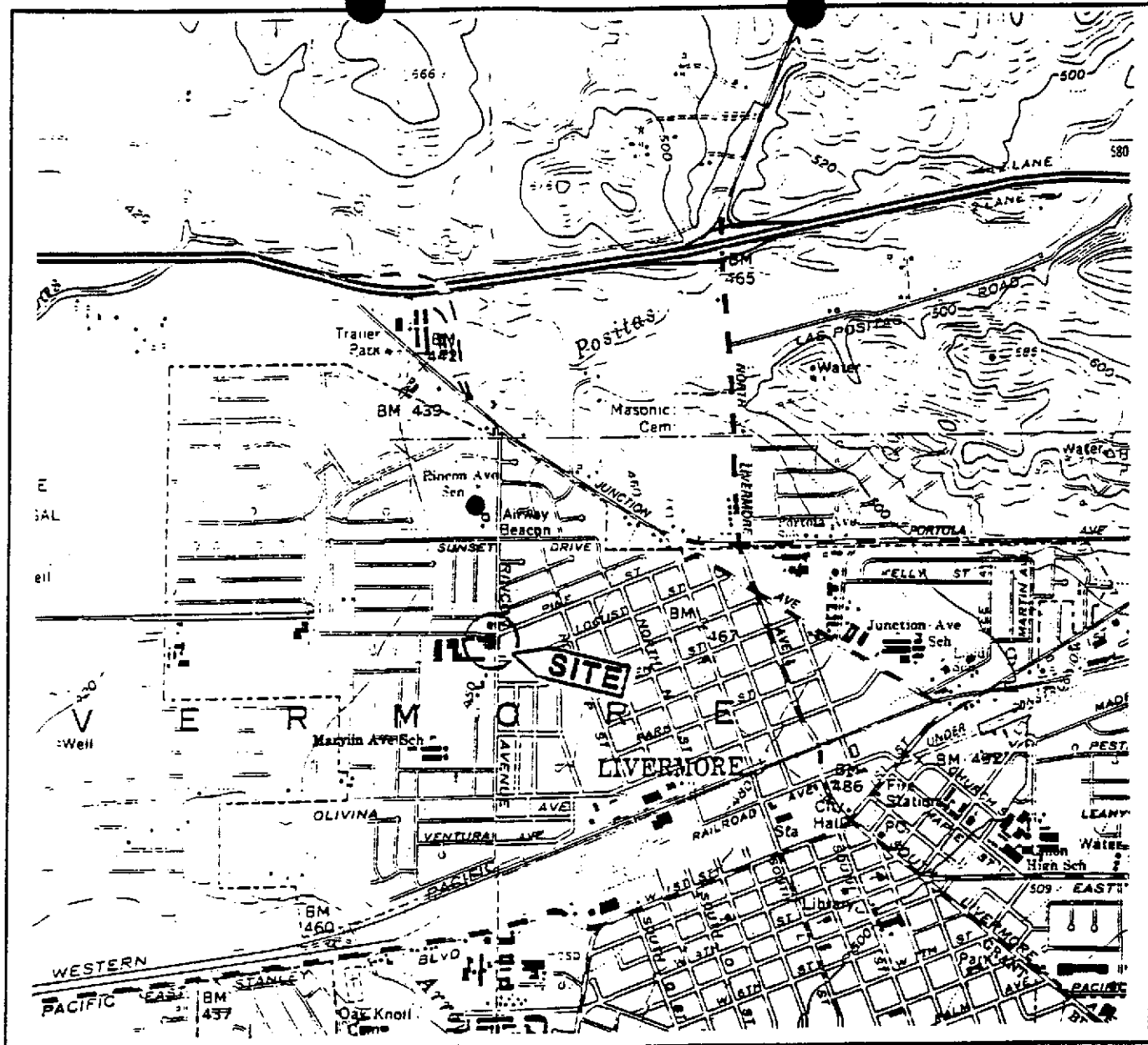
Barbara Sieminski
Staff Geologist



Joel Coffman
Project Geologist

Enclosures: Plate 1, Site Vicinity Map
Plate 2, Proposed Boring/Monitoring Well Locations
License Agreement Between Edward W. & Geraldine A. Rathburn
and ARCO Products Company

cc: Chuck Carmel, ARCO Products Company
Chris Winsor, ARCO Products Company
Gill Jensen, Alameda County District Attorney's Office
Susan Hugo, Alameda County Health Care Services Agency



Base: U.S. Geological Survey
 7.5-Minute Quadrangle
 Livermore, California
 Photorevised 1980

LEGEND

= Site Location

Approximate Scale



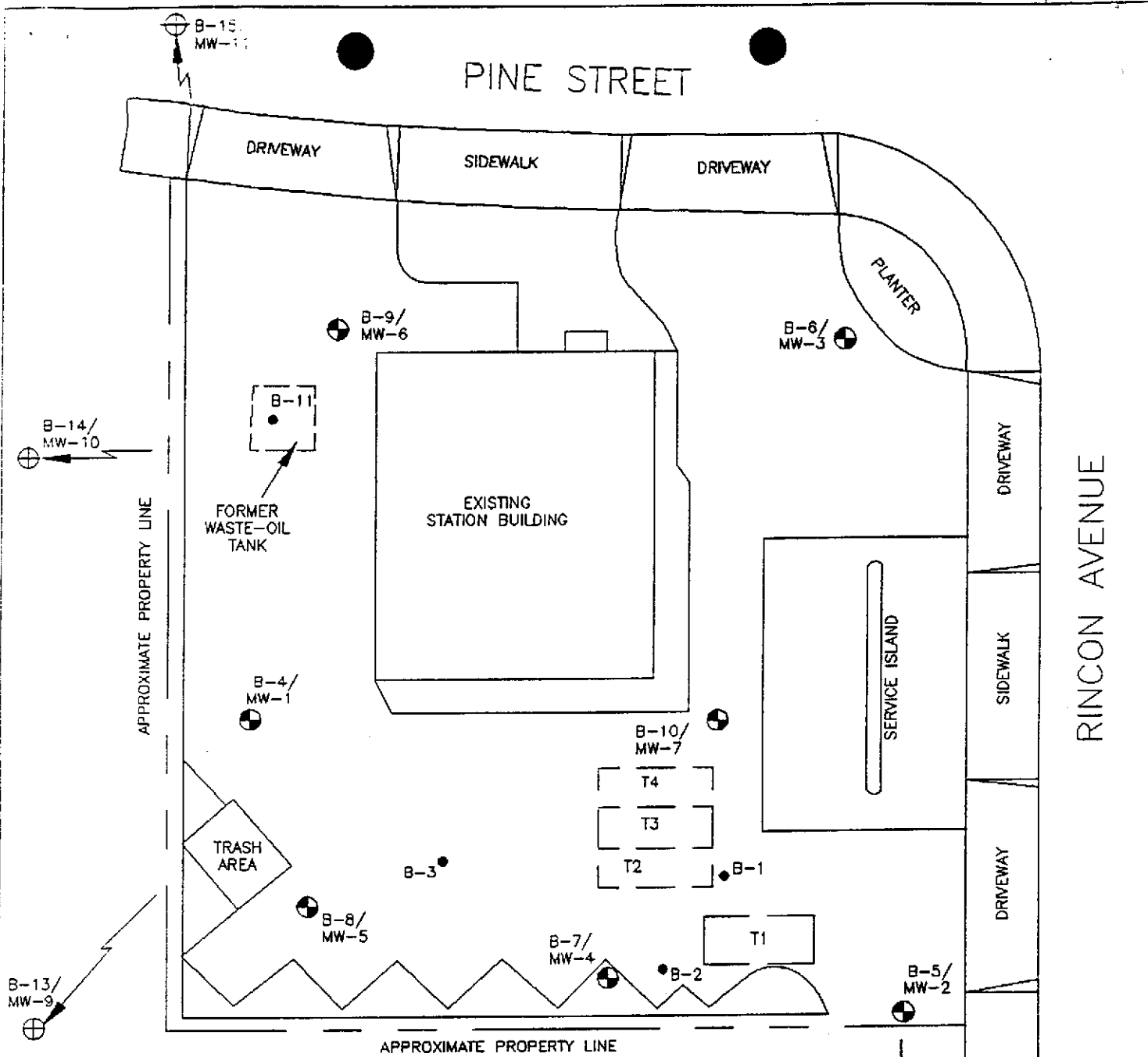
RESNA

PROJECT 60000.09

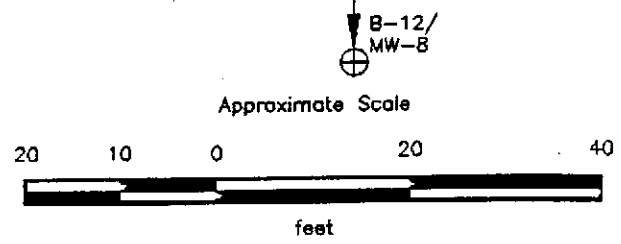
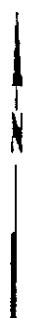
**SITE VICINITY MAP
 ARCO Station 771
 899 Rincon Avenue
 Livermore, California**

PLATE

1



- B-15/
MW-11** ⊕ = Proposed boring/monitoring well
- B-10/
MW-7** ● = Monitoring well
(Applied GeoSystems,
December 1990, June, and July 1991)
- B-11** ● = Soil boring
(Applied GeoSystems,
February 1990, July 1991)
- [T4] = Underground gasoline-storage tank



Source: Surveyed by John Koch, Licensed Land Surveyor.

RESNA	PROPOSED BORING/ MONITORING WELL LOCATIONS ARCO Station 771 899 Rincon Avenue Livermore, California	PLATE 2
	PROJECT 60000.09	

**LICENSE AGREEMENT
BETWEEN EDWARD W. & GERALDINE A. RATHBURN
AND ARCO PRODUCTS COMPANY**

This license Agreement is made on the 7rd day of January, 1992, between Edward W. & Geraldine A. Rathburn, private owners, hereinafter referred to as "licensor" and ARCO Products Company, a division of Atlantic Richfield Company, hereinafter referred to as "licensee".

1. RECITALS

- 1.1 Licensor owns certain real property (the "Property") at 783 Rincon Avenue, Livermore, in the state of California.
- 1.2 Licensee desires to drill on a portion of the Property, three (3) groundwater wells as depicted on Plate 2, attached hereto and made part hereof.
- 1.3 The parties desire to enter into this License Agreement to allow licensee to install said groundwater wells on the Property.
- 1.4 Neither this License Agreement nor any of the terms hereof shall be construed as an admission of liability by Licensee for any contamination, alleged or otherwise, on the licensed area of any adjoining property.

2. AGREEMENT

Now, therefore, in consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree to and with each other as follows.

3. TERMS

- 3.1 Licensee may drill, use and backfill at its sole cost and expense, three (3) groundwater wells on the Property located at 783 Rincon Avenue, Livermore, California.
- 3.2 Said groundwater wells shall be completed as shown on Plate 2 attached hereto and made part hereof.

- 3.3 Licensee, upon prior notification to licensor, may enter the Property to monitor and sample the three (3) groundwater wells.
- 3.4 Licensee agrees not to permit any liens to stand against the Property for work done or materials furnished to licensee, and licensee agrees to indemnify and hold licensor harmless for same.
- 3.5 If the surface of the licensed are and/or the surface of licensor's adjacent real property and/or improvements thereon shall be disturbed by the emplacement or the backfill of licensee's groundwater wells, then said surface and/or improvements shall be promptly restored by licensee to their condition just prior to such disturbance.
- 3.6 Licensee shall, after completion, backfill said borings pursuant to this License Agreement, or after the groundwater wells are no longer useful to the investigation, destroy the groundwater wells according to the standards set forth by the appropriate State agency.
- 3.7 Licensee agrees to indemnify, defend, and save licensor harmless from all liability, damage, expense, causes of action, suits, claims, or judgements resulting from injuries to person or damage to property on the licensed area or on adjoining streets and sidewalks which arise out of the act, failure to act, or negligence of licensee, its agents, employees, invitees, or guests in performing work under this License Agreement.
- 3.8 This License Agreement shall not constitute a deed or a grant of easement and shall not be deemed irrevocable or an easement by virtue of the work performed under or by reason of this license.
- 3.9 This License Agreement may be terminated by either party upon thirty (30) days prior written notice.

In witness whereof, the parties hereto have executed this License Agreement as of the day and year first above written.

ARCO Products Company

Edward W. & Geraldine A. Rathburn

By: _____

By: _____

Title: _____

Title: _____

Date: _____

Date: _____

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In witness whereof, the parties hereto have executed this License Agreement as of the day and year first above written.

ARCO Products Company

By: _____

Title: _____

Date: _____

Edward W. & Geraldine A. Rathburn

By: _____

Title: _____

Date: _____

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES



1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520 510 602-2333 FAX # 510 687-1258

92 JAN -7 5:31:02

January 3, 1992

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way, Rm 200
Oakland, CA 94621

RE: ARCO Facility No. 771
899 Rincon Avenue
Livermore, CA

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), Roux Associates (Roux) is requesting authorization to install new gasoline product tanks in the excavation at the above-referenced facility (Site). Four tanks were removed from the excavation on December 30, 1991. The following information will summarize the findings of the work that has been performed to date.

On December 30, 1991, four gasoline underground storage tanks were removed from the tank complex by Golden West Builders of Brentwood, California. The tanks were inerted with dry ice and liquid nitrogen. Following removal from the tank complex, the tanks were inspected for leaks and holes and were removed from the Site by H&H Environmental Services of San Francisco, California.

On December 31, 1991 to January 3, 1992, the excavation was enlarged and shored to prevent collapse of the excavation walls. Additional soil was removed from the excavation and stockpiled on site.

Two soil samples were collected underneath each tank by Roux Associates for a total of eight samples. The soil samples were submitted for analysis to Sequoia Analytical of Concord, California. Soil sample locations are indicated on the attached Figure 1. Soils were analyzed for Low to Medium Boiling Point Petroleum Hydrocarbons (TPH-G) by USEPA Method 8015 and for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by USEPA Method 8020. The TPH-G concentrations range from below detection to 4,600 parts per million (ppm). Benzene ranges from below detection to 26 ppm. Toluene, Ethylbenzene, and Xylenes range from below detection to 1,100 ppm. The analytical results are summarized on the attached Table 1.

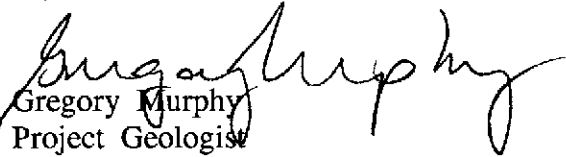
A previous subsurface investigation at the Site indicated that soil contamination is

Doc# AR135W01

apparently limited to the area in the vicinity of the tank complex ("*Additional Subsurface Investigation*", October 17, 1991, RESNA). We understand that RESNA/Applied GeoSystems conducted a vent test at the Site and found soil conditions favoring vapor extraction. Wells exist along the perimeter of the tank complex providing extraction points from which to remove petroleum hydrocarbons in the soil. ARCO plans to install and operate a vapor extraction system to remediate petroleum hydrocarbons in soil at the Site.

We would like to begin installing new tanks in the existing excavated tank complex as soon as possible and would appreciate your prompt review of this request. Please call if you require additional information.

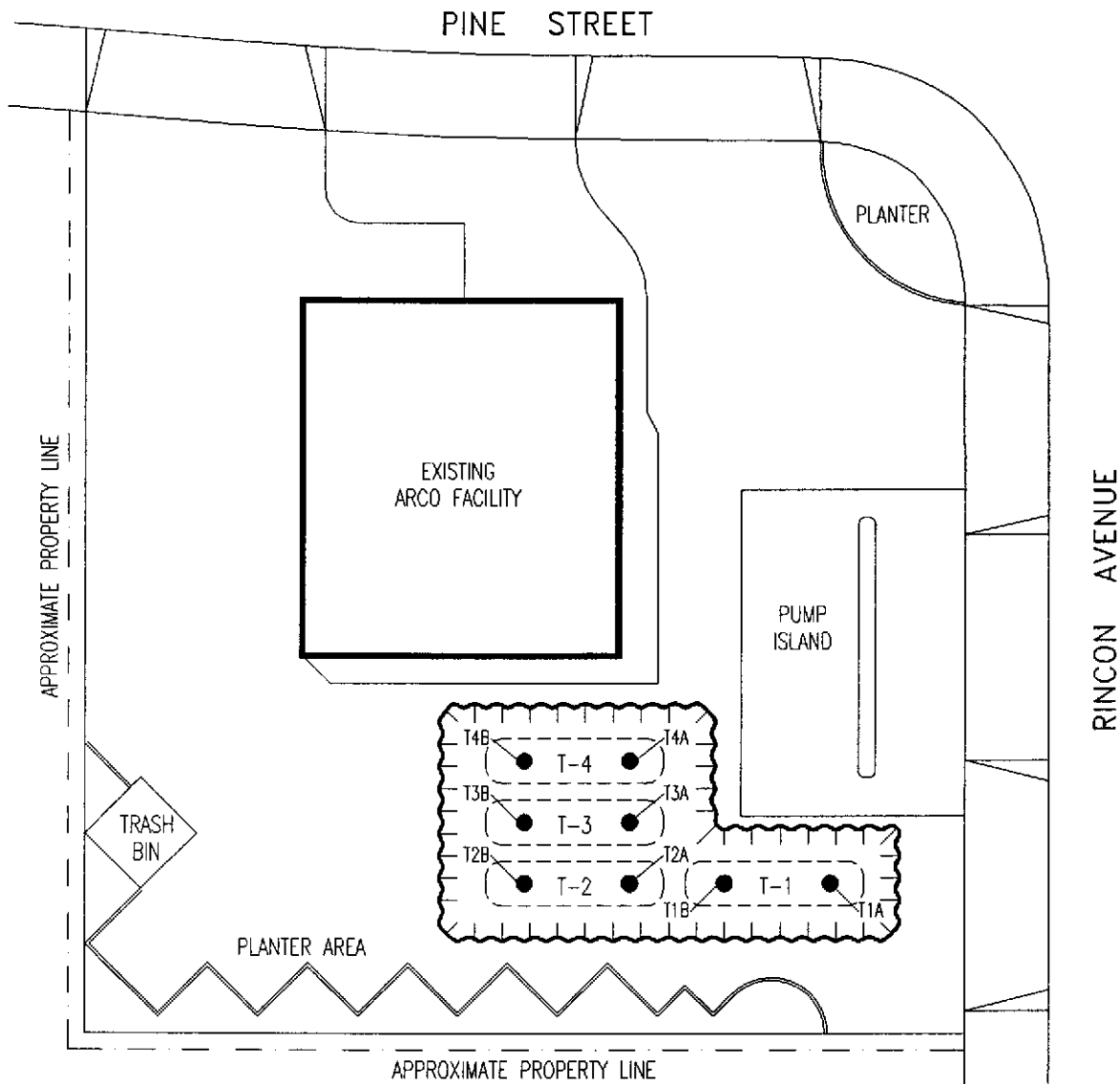
Sincerely,
ROUX ASSOCIATES


Gregory Murphy
Project Geologist



cc: Mr. Charles Carmel, ARCO

attachments: Table 1. Soil Sample Analytical Results.
Figure 1. Site Plan, Excavation Sample Locations

Doc# AR135W01

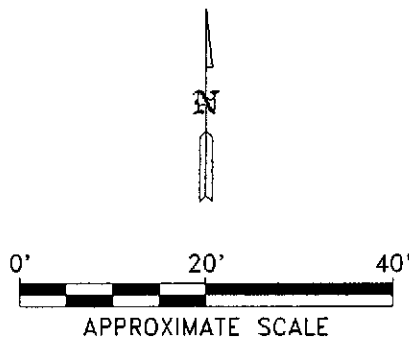



EXPLANATION

-  TANK COMPLEX EXCAVATION.
-  FORMER LOCATION OF UNDERGROUND STORAGE TANKS.
- T2B ● EXCAVATION SAMPLE LOCATIONS.

SOURCE:

MAP MODIFIED FROM
RESNA CONSULTANTS, 1991.



 ROUX ASSOCIATES, INC. ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: G.M.	PREPARED FOR: ARCO PRODUCTS COMPANY	FIGURE <div style="font-size: 2em; text-align: center;">1</div>
	PREPARED BY: R.P.		
	PROJECT MNGR. G.M.	TITLE:	
	DATE: 1/92	SITE PLAN AND EXCAVATION SAMPLE LOCATIONS	
	SCALE: AS SHOWN	ARCO FACILITY NO. 771	
PROJECT NO. A135W01			
FILE NAME: AR_771XX			

ENVIRONMENTAL CONSULTING
AND MANAGEMENT

ROUX ASSOCIATES

FAX TRANSMITTAL

1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520

Date: 1/3/91

To: Ms. Susan Hoge

Company: Alameda Co. DHS

FAX No: 563 - 3706

From: Gregory Murphy

Project No.: A135W01
Roux Associates, Inc.

Fax No: 510-687-1258

Phone No: 510-602-2333

Number of pages including cover sheet: 5

Comments:

Request for tank replacement approval in existing
tank excavation. 899 Rincan Ave.
Livermore, CA

ENVIRONMENTAL CONSULTING & INVESTIGATION

ROUX ASSOCIATES

ROUX1435 HALLWAY BOULEVARD
SUITE 175
CONCORD, CALIFORNIA 94520-1000 TEL: 925/301-1000 FAX: 925/301-1001

January 5, 1992

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way, Rm 200
Oakland, CA 94621

RE: ARCO Facility No. 731
899 Ridgion Avenue
Livermore, CA

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), Roux Associates (Roux) is requesting authorization to install new gasoline product tanks in the excavation at the above-referenced facility (Site). Four tanks were removed from the excavation on December 30, 1991. The following information will summarize the findings of the work that has been performed to date.

On December 30, 1991, four gasoline underground storage tanks were removed from the tank complex by Golden West Bulldogs of Brentwood, California. The tanks were inserted with dry ice and liquid nitrogen. Following removal from the tank complex, the tanks were inspected for leaks and holes and were removed from the Site by H&M Environmental Services of San Francisco, California.

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Doc# AR135W01

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We would like to begin installing new tanks in the existing excavated tank complex as soon as possible and would appreciate your prompt review of this request. Please call if you require additional information.

Sincerely,
ROUX ASSOCIATES


Gregory Murphy
Project Geologist

cc: Mr. Charles Carmel, ARCO

attachments: Table 1. Soil Sample Analytical Results.
Figure 1. Site Plan, Excavation Sample Locations

Doc# AR135W01

**Table 1. Soil Sample Analytical Results, Tank Excavation
ARCO Facility No. 771 Livermore, California**

<u>Sample Number</u>	<u>Date Sampled</u>	<u>TPH-G</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
T1A	12/30/91	1,500	1.3	28	24	210
T1B	12/30/91	1.4	0.019	0.015	0.0089	0.2
T2A	12/30/91	1,900	1.3	9.4	8.6	94
T2B	12/30/91	ND	ND	ND	ND	ND
T3A	12/30/91	45	0.089	1.2	0.52	4.7
T3B	12/30/91	1.3	0.0097	0.045	0.023	0.24
T4A	12/30/91	4,600	26	470	170	1,100
T4B	12/30/91	2.4	0.0095	0.05	0.041	0.33

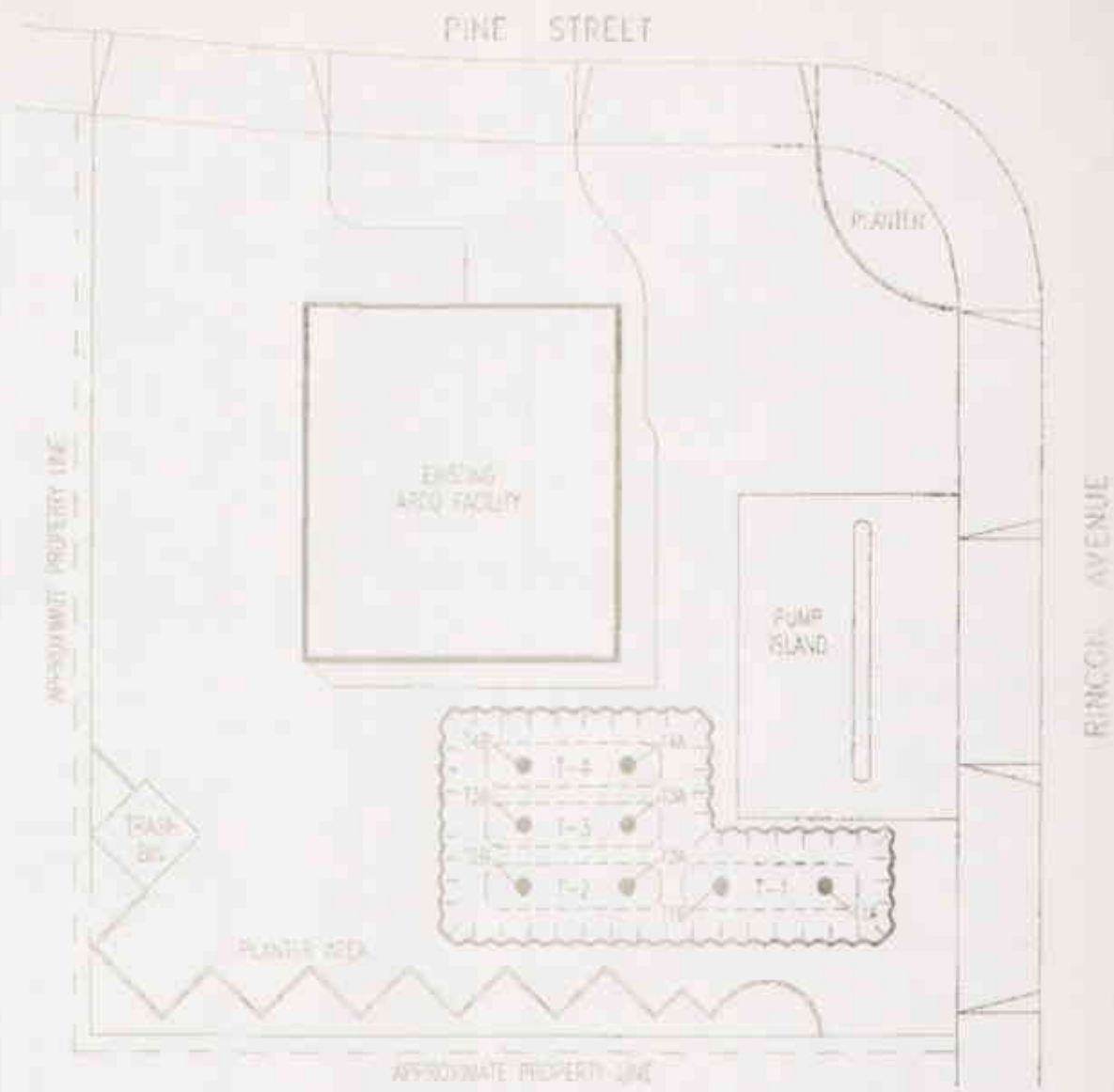
FOOTNOTES:

TPH-G = Low to Medium Boiling Point Hydrocarbons by USEPA Method 8015
quantitated against a gasoline standard.

BTEX by USEPA Method 8020.

ND = Not detected.

All analyses reported in parts per million.



EXPLANATION

-  TANK COMPLEX EXCAVATION
-  FORMER LOCATION OF UNDERGROUND STORAGE TANKS
-  EXCAVATION SAMPLE LOCATIONS

SOURCE:
 MAP MODIFIED FROM
 RESNA CONSULTANTS, 1991



	DESIGNED BY	D.M.	PROJECT NO.	ARCO PRODUCTS COMPANY	FIGURE 1
	DRAWN BY	A.P.			
	DATE	D.M.	TITLE		
		1/82			
		65 SHOWN			
	NO.	A-35901		SITE PLAN AND EXCAVATION SAMPLE LOCATIONS	
	SCALE	AS SHOWN		ARCO FACILITY NO. 771	

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name ARCO Today's Date 1/3/92
 Site Address 899 RINCON AVE EPA ID# _____
 City LIVERMORE Zip 94588 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- | | | |
|-------------------|--|---------|
| | <input type="checkbox"/> 1. Waste ID | * 66471 |
| | <input type="checkbox"/> 2. EPA ID | 66472 |
| | <input type="checkbox"/> 3. > 90 days | 66508 |
| | <input type="checkbox"/> 4. Label dates | 66508 |
| | <input type="checkbox"/> 5. Biennial | 66493 |
| Manifest | <input type="checkbox"/> 6. Records | 66492 |
| | <input type="checkbox"/> 7. Correct | 66484 |
| | <input type="checkbox"/> 8. Copy sent | 66492 |
| | <input type="checkbox"/> 9. Exception | 66484 |
| | <input type="checkbox"/> 10. Copies Rec'd | 66492 |
| Misc. | <input type="checkbox"/> 11. Treatment | 66371 |
| | <input type="checkbox"/> 12. On-site Disp. (H.S.&C.) | 26189.5 |
| | <input type="checkbox"/> 13. Ex Haz. Waste | 66570 |
| Prevention | <input type="checkbox"/> 14. Communications | 67121 |
| | <input type="checkbox"/> 15. Aisle Space | 67124 |
| | <input type="checkbox"/> 16. Local Authority | 67126 |
| | <input type="checkbox"/> 17. Maintenance | 67120 |
| | <input type="checkbox"/> 18. Training | 67105 |
| Contin. gency | <input type="checkbox"/> 19. Prepared | 67140 |
| | <input type="checkbox"/> 20. Name List | 67141 |
| | <input type="checkbox"/> 21. Copies | 67141 |
| | <input type="checkbox"/> 22. Emg. Coord. Tmg. | 67144 |
| Containers, Tanks | <input type="checkbox"/> 23. Condition | 67241 |
| | <input type="checkbox"/> 24. Compatibility | 67242 |
| | <input type="checkbox"/> 25. Maintenance | 67243 |
| | <input type="checkbox"/> 26. Inspection | 67244 |
| | <input type="checkbox"/> 27. Buffer Zone | 67246 |
| | <input type="checkbox"/> 28. Tank Inspection | 67259 |
| | <input type="checkbox"/> 29. Containment | 67245 |
| | <input type="checkbox"/> 30. Safe Storage | 67261 |
| | <input type="checkbox"/> 31. Freeboard | 67257 |

Comments:

Site Visit:
 Still showing the excavation pit (18-20 ft. deep). Will be complete by Monday (1/6/92)

I.B TRANSPORTER (Title 22)

- | | | |
|----------|--|-------|
| | <input type="checkbox"/> 32. Applic./Insurance | 66428 |
| | <input type="checkbox"/> 33. Comp. Cert./CHP Insp. | 66448 |
| | <input type="checkbox"/> 34. Containers | 66465 |
| Manifest | <input type="checkbox"/> 35. Vehicles | 66465 |
| | <input type="checkbox"/> 36. EPA ID #s | 66531 |
| | <input type="checkbox"/> 37. Correct | 66541 |
| | <input type="checkbox"/> 38. HW Delivery | 66543 |
| | <input type="checkbox"/> 39. Records | 66544 |
| Cont's | <input type="checkbox"/> 40. Name/ Covers | 66545 |
| | <input type="checkbox"/> 41. Recyclables | 66800 |

Rev 6/88

Contact: _____
 Title: _____
 Signature: _____

Inspector: Susan L. Aug
 Signature: _____



white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name ARCO Today's Date 12/30/91

Site Address 899 RINCON AVE.

City LIVERMORE Zip 94550 Phone _____

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|--|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Groundwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/groundwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| New Tanks | ___ 7. Precip Tank Test 2643 |
| | Date: _____ |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing 2646 |
| ___ 10. Ground Water. 2647 | |
| ___ 11. Monitor Plan 2632 | |
| ___ 12. Access. Secure 2634 | |
| ___ 13. Plans Submit 2711 | |
| Date: _____ | |
| ___ 14. As Built 2635 | |
| Date: _____ | |

Rev 6/88

___ MAX AMT stored > 500 lbs. 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

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

Comments: 12:30 - 4:00 PM

4 UGT Removals
Manifest # 91511441 - 2 UGT's Steel
manifest # 91511439 - 2 UGT's Fiberglass
8 Bottom Soil samples collected
one from each end of the tanks.
Pipings will be removed
next (probably Thursday 1/2/92).

II, III

Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: _____

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

December 9, 1991
1206SHUG.771
61026.01

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

Status of Previous Months Activities:

- November 6, 1991: Purge water generated during quarterly groundwater monitoring and sampling was removed from site by H&H Shipping Company. Free product from double-contained drum could not be removed because garbage container blocked an access. ✓
- November 13, 1991: Conducted monthly monitoring of groundwater monitoring wells to determine depth-to-water in each well. Hand bailed floating product from groundwater monitoring well MW-1. ✓
- November 20, 1991: Received from ARCO a task order to install floating product skimmers in monitoring wells MW-1, MW-2 and MW-5. ✓
- November 22, 1991: Submitted a final copy of Third Quarter 1991 Groundwater Monitoring Letter Report to ARCO and governing agencies.

November 27, 1991: Free product from double-contained drum was removed from the site by H&H Shipping Company.

Anticipated Work to be performed in the Next Month:

- o Continue monthly groundwater monitoring and quarterly sampling program for this site.
- o Conduct a vapor extraction test (VET) at the site.
- o Install a floating product skimmers in monitoring wells MW-1, MW-2 and MW-5.
- o Submit Addendum Two to Work Plan for proposed interim groundwater remediation.

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

Sincerely,
RESNA

Barbara Sieminski

Barbara Sieminski
Staff Geologist

Joel Coffman

Joel Coffman
Project Geologist



A RESNA Company

RESNA

Working To Restore Nature

TRANSMITTAL

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

TO: MS. SUSAN HUGO
ACHCSA-DEH
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94621

DATE: 12/12/91
PROJECT NUMBER: 61026.01
SUBJECT: ARCO SITE STATUS UPDATES
FOR VARIOUS ARCO STATIONS.

FROM: JOEL COFFMAN
TITLE: PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1	12/9/91		SITE STATUS UPDATES FOR ARCO STATION 771, 374, 6113, AND 6148.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: _____

Copies: 1 to project file no. 61026.01

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

10/22/92 -

Joel Coffman → meeting with Arco

3883 785 E. Stanley } Livermore
3873 899 Beacon Ave }

set up meeting w/ Eddy So - Nov. 11, 1992
if available ↓
Nov. 17, 1992

10/28/92

Call fr. Joel Coffman - Michael Wheland
out of town Nov. 17, 1992 - reschedule
for Nov. 19, 1992. Called Eddy So
need to hear from Eddy for
confirmation.

(6/11/92)

LIST OF ARCO SITES WITH UGT CLEANUP

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

3315 Almaden Expressway, Suite 340
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2435

10:59 TRANSMITTAL

TO: MR. CHUCK CARMEL
ARCO PRODUCTS COMPANY
P.O. BOX 5811
SAN MATEO, CALIFORNIA 94402

DATE: 1/23/92
PROJECT NUMBER: 60000.09
SUBJECT: ARCO STATION 771 AT
899 RINCON AVENUE, LIVERMORE,
CALIFORNIA

FROM: JOEL COFFMAN
TITLE: PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1	1/23/92		MINUTES OF MEETING AT THE RWQCB TO DISCUSS FUTURE WORK AT THE ABOVE SUBJECT SITE.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: CC: PAUL SUPPLE, ROUX ASSOCIATES
KYLE CHRISTIE, ARCO PRODUCTS COMPANY
CHRIS WINSOR, ARCO PRODUCTS COMPANY
EDDY SO, RWQCB
SUSAN HUGO, ACHCSA

Copies: 1 to project file no. 60000.09

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

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

January 23, 1992
0120ccar
60000.09

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

Subject: Minutes of Meeting at the Regional Water Quality Control Board (RWQCB) to discuss future work at ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Mr. Carmel:

This letter is a brief recapitulation of a meeting held at the RWQCB in Oakland, California at 1:30 pm on Friday, January 17, 1992 concerning future work at the subject site. Attending the meeting were Mr. Eddy So of the RWQCB, Ms. Susan Hugo of the Alameda County Health Care Services Agency (ACHCSA), Mr. Kyle Christie and Mr. Chuck Carmel of ARCO Products Company (ARCO), Mr. Paul Supple of Roux Associates, and Mr. Joel Coffman of RESNA Industries, Inc. (RESNA). Also present for a discussion concerning a separate ARCO station in Alameda County, California, was Mr. John Vargas of GeoStrategies Inc.

The meeting was held at the request of ARCO to attempt to resolve issues related to the underground gasoline storage tank and product delivery line removal and replacement at the site. Ms. Susan Hugo of ACHCSA had previously issued the permits for tank replacement at the site and had stopped work from proceeding at the site when gasoline impacted soils were encountered beneath the former tanks. This left the site effectively closed down with the former tank pit excavation left open.

The meeting convened and discussion began concerning the present status of the site. Mr. Christie of ARCO explained that the old product delivery piping ~~was not to be replaced~~ ~~due to the limited access caused by the fact that the excavation had not been~~ ~~allowed to be installed and there was not enough room to maneuver around the site or store~~ ~~any more soils until these new tanks were installed and covered.~~ Mr. Christie also explained that the product delivery lines would be excavated and removed within two weeks after the

~~_____~~ He also explained that vault boxes and remediation system piping would also be installed concurrently with the installation of the new product delivery lines. The vaults are covers for existing and future vapor and groundwater extraction wells. He explained it is easier to install these vaults and piping for the system while the station is closed undergoing major reconstruction (tank replacement) than to come back later and dig the site up again. Mr. Christie explained that space would be left between the new tanks and 12 inch diameter blank conductor casing installed in this space to aid the drilling and sampling of future confirmation borings in the tank pit area, as needed.

Ms. Hugo and Mr. So said at this point they do not intend to further hinder the tank replacement activities with the following stipulations:

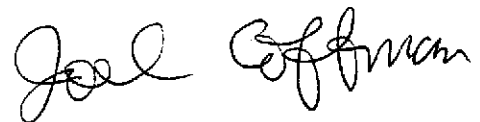
- ✓ The tank pit is to be dug out to approximately 18 feet depth and samples collected from the bottom of the tank pit for analysis, including analysis for lead, new tank installation is to proceed following this excavation and sampling;
- Should areas of contaminated soils be encountered during product delivery line removal and replacement, the area is to be excavated until contaminated soil is removed or a physical barrier is encountered which prevents further excavation;
- ✓ Within two weeks (by January 31, 1992), submit an interim remediation work plan to Susan Hugo of ACHCSA. This work plan shall outline the proposed vapor extraction system to be used at the site. It was stipulated that groundwater pumping and treatment should not be addressed in this interim remedial action plan but should be included in a future longterm remediation plan;
- In an additional addendum to the work plan, include installation of the previously proposed four offsite groundwater monitoring wells, ~~an additional well down gradient of the tanks for future groundwater recovery, as close to within 10 feet distance from tanks as possible,~~ and a ~~possible additional vapor extraction well to be located in the area of the product delivery lines;~~
- Continue ~~free product removal on a regular basis and record amount of total product removed.~~ It was explained to ~~Ms. So that this is currently being performed,~~ that ~~passive product eliminators have been installed in the wells containing free product,~~ and that the total amount of free product removed from the site is currently being reported in quarterly groundwater monitoring reports; and

- Analyze groundwater samples from the well nearest the former waste-oil tank for total oil and grease (TOG), it was decided monitoring well MW-6 is the well from which TOG analysis will be performed on groundwater samples.

It was stipulated by Mr. So that the Remedial Action Plan for the site will thus be spread into several separate phases with the first phase to be the work plan for a vapor extraction system. Other phases will include system design and permitting, installation of offsite wells, and other work as determined to be necessary.

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

Very truly yours,
RESNA



Joel Coffman
Project Geologist

cc: Paul Supple, Roux Associates
Kyle Christie, ARCO Products Company
Chris Winsor, ARCO Products Company
Eddy So, Regional Water Quality Control Board
Susan Hugo, Alameda County Health Care Services Agency

01/07/92

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



Noted E. P. SO.

JAN 13 1992

1/7/92 ACAD comments

January 7, 1992

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

Mr. Joel Coffman
RESNA
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

01

DEPARTMENT OF ENVIRONMENTAL HEALTH

RE ARCO Station 771, 899 Rincon Avenue, Livermore
California 94550

JAN 9 1992 ES

QUALITY CONTROL BOARD

Dear Mr. Coffman:

Per our telephone conversation of January 2, 1992, the results of the vapor extraction test (VET) performed at the site on December 12, 1991 will be submitted to this office. We are now in receipt of this report.

As you are aware, four underground storage tanks were removed from this site last December 30, 1991. Eight bottom soil samples were collected (one from underneath each end of the tank). During the removal of the tanks, Roux Associates (in charge of collecting the soil samples) requested authorization to backfill the eastern part of the excavation pit with the stockpiled soils. The request was granted so that shoring of the excavation pit can proceed immediately due to the instability of the soil at the site. ~~Backfilling of the excavation pit was allowed on the condition that the pit will be lined with plastic sheeting before backfilling and that the stockpiled soils will be re-excavated if the soil analysis showed any detectable levels of contamination.~~

This department has received the analytical results of the eight soil samples collected underneath the tanks. Soil contamination as high as ~~2,500~~ ppm of TPH as gasoline; 26 ppm of benzene; 470 ppm of toluene; 170 ppm ethylbenzene; 1,100 ppm of xylenes were detected. ~~Analytical results of the stockpiled soils have not been received by this office.~~

The pipings associated with the former underground storage tanks are currently still in the ground and will be removed at a later date. Roux Associates and Golden West Builders (ARCO's contractor) were advised to notify this office when the pipings will be removed and that piping trenches must be sampled (one soil sample per twenty lineal feet).

The Additional Subsurface Investigation Report (October 17, 1991) and the Third Quarter 1991 Groundwater Monitoring Report (November 21, 1991) have been reviewed by this department. Based on these reports, the soil contamination has not been delineated in the southern portion of the property. ~~Three monitoring wells (MW-1, MW-2, MW-5) have free floating product.~~ All seven wells at

Mr. Joel Coffman
RE: ARCO Station 771, 899 Rincon Ave, Livermore
Page 2 of 2
January 7, 1992

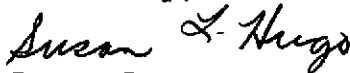
the site showed dissolved constituents. MW-3 through MW-7 had elevated levels of the following: TPH gasoline as high as 57,000 ppb; benzene as high as 3,000 ppb; toluene as high as 4,200 ppb; ethyl benzene as high as 1,200 ppb; and xylenes as high as 14,000 ppb. These data clearly showed that the extent of groundwater hydrocarbon pollution plume has not been delineated at the site and may have migrated off-site. An interim remediation system should be implemented to contain the hydrocarbon plume at the site and prevent from further off-site migration.

This office concurs with RESNA's proposal for further delineation of the soil and groundwater contamination at the site as stated in the Executive Summary of Additional Subsurface Investigation (October 17, 1991). In addition to the ten tasks listed in the proposal, ~~the impact of contamination in the groundwater from the former waste oil tank (removed in 1987) must be investigated.~~ It was noted that waste oil constituents were never analyzed during the past groundwater monitoring events. Although soil boring B-11 showed nondetectable levels of waste oil related hydrocarbons, this is not a positive indication that the groundwater was never impacted by the unauthorized release from the former waste oil tank. Future groundwater sampling events must include analyses for total petroleum hydrocarbon as diesel (TPHd) and total oil and grease (TOG) in addition to total petroleum hydrocarbon as gasoline (TPHg), benzene, toluene, ethylbenzene and xylene (BTXE).

The forthcoming remedial action plan stated in your VET report must include a monitoring plan to verify the effectiveness of the proposed vapor extraction system. In addition, a time schedule for the completion of the cleanup project at the site should also be submitted.

If you have any questions, please call the undersigned at (510) 271-4320.

Sincerely,



Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Chuck Carmel, ARCO Products Company
Eddy P. So, San Francisco Bay RWQCB
Mark Thomson, Alameda County District Attorney's Office
Danielle Stefani, City of Livermore Fire Department
Gregory Murphy, Roux Associates
Files

white - env. health
 yellow - facility
 pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name Arco Station # 771 Today's Date 1/22/92

Site Address 749 Rincon Ave

City Fremont Zip 94550 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft?
on site Golden West (Contractor)
 Inspection Categories:
 I. Haz. Mat/Waste GENERATOR/TRANSPORTER *at Husky Crane Service*
 II. Business Plans, Acute Hazardous Materials
 III. Underground Tanks *installation*
off site @ 11- on site @ 1145

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

Comments:

note: Crane not set up until 2 PM
 on site for installation of 4 double walled fiberglass tanks - *soag test of walls* *photos taken*
note: the tanks are under 5 psi pressure (lines) as of 11 AM
on per job form, annular space to be checked next

* All tanks appear to conform to Sec 2631 (information) *(4 photos taken)* *about on tank*

East to West

3:00 PM # 1 tank soaped down, inspected, placed in pit
 3:25 PM # 2 tank soaped down, inspected, placed in pit
 3:45 PM # 3 tank soaped down, inspected, placed in pit
 4:10 # 4 tank soaped down, inspected, placed in pit

* needs: further inspections when ready.
(summary of soaping, initial tank integrity tests, etc according to spec)
 off site @ 4:20

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

II.B ACUTELY HAZ MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. Off-Site Conseq. Assess. 25524(c)
- ___ 15. Probable Rsk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(i)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General
- ___ 1. Permit Application 25284 (H&S)
 - ___ 2. Pipeline Leak Detection 25292 (H&S)
 - ___ 3. Records Maintenance 2712
 - ___ 4. Release Report 2651
 - ___ 5. Closure Plans 2670

- Monitoring for Existing Tanks
- ___ 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Gndwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____

- ___ 7. Precs Tank Test 2643
Date: _____
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing. 2646
- ___ 10. Ground Water. 2647

- New Tanks
- ___ 11. Monitor Plan 2632
 - ___ 12. Access. Secure 2634
 - ___ 13. Plans Submit 2711
Date: _____
 - ___ 14. As Built 2635
Date: _____

Rev 6/88

Contact: X Duk Sparl
 Title: Contractor Golden West
 Signature: [Signature]

Inspector: Bruce Oliva
 Signature: _____

II, III

ALAMEDA COUNTY, DEPARTMENT OF
 ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

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

II, III

1060 MINNESOTA AVE.
 P.O. BOX 1238
 BRENTWOOD, CA 94513
 (415) 634-1998
 FAX (415) 634-2515
 Doug
 SPARLIN

2703
 25503(b)
 25503.7
 25504(a)
 730
 25504(b)
 25504(c)
 25505(a)
 25505(b)

Site ID # _____ Site Name Arco Station # 771 Today's Date 1/22/92

Site Address 999 Rincón Ave.

City Yerwood Zip 94550 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
on site by Golden West (Contractor)

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks *installation*
- at office @ 11- on site @ 1145*

IV. ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General**
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks**
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Groundwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/groundwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____

- 7. Precs Tank Test 2643
Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647

- New Tanks**
- 11. Monitor Plan 2632
 - 12. Access, Secure 2634
 - 13. Plans Submit 2711
Date: _____
 - 14. As Built 2635
Date: _____

Rev 6/88

Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
note: Crane not set up until 2PM

Comments:

on site for installation of 4 double walled fiberglass tanks - soap test of walls photo taken

NOTE: the tanks are under 5 psi pressure (lines) as of 11 AM on per job foreman, consider space to be checked next.

** All tanks appear to conform to Sec 2631 (inspection) (4 photos taken) what on tank*

East to West

3:00 PM # 1 tank soaped down inspected, placed in pit

3:35 PM # 2 tank soaped down, inspected, placed in pit

3:45 PM # 3 tank soaped down, inspected, placed in pit

4:10 # 4 tank soaped down, inspected, placed in pit

** Needs: further inspections when ready.*

(summary of soaping, initial tank integrity tests, etc secondary piping)

off site @ 4:20

II, III

Contact: X Doug SPARLIN

Title: CONTRACTOR Golden West

Signature: X [Signature]

Inspector: Bruce Oliva

Signature: _____



A RESNA Company

RESNA

Working To Restore Nature

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

December 9, 1991
1206SHUG.771
61026.01

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

Subject: **Site Status Update** for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

Status of Previous Months Activities:

November 6, 1991: Purge water generated during quarterly groundwater monitoring and sampling was removed from site by H&H Shipping Company. Free product from double-contained drum could not be removed because garbage container blocked an access.

November 13, 1991: Conducted monthly monitoring of groundwater monitoring wells to determine depth-to-water in each well. Hand bailed floating-product from groundwater monitoring well MW-1.

November 20, 1991: Received from ARCO a task order to install floating product skimmers in monitoring wells MW-1, MW-2 and MW-5.

November 22, 1991: Submitted a final copy of Third Quarter 1991 Groundwater Monitoring Letter Report to ARCO and governing agencies.

November 27, 1991: Free product from double-contained drum was removed from the site by H&H Shipping Company.

Anticipated Work to be performed in the Next Month:

- o Continue monthly groundwater monitoring and quarterly sampling program for this site.
- ✓ o Conduct a vapor extraction test (VET) at the site.
- ✓ o Install a floating product skimmers in monitoring wells MW-1, MW-2 and MW-5.
- o Submit Addendum Two to Work Plan for proposed interim groundwater remediation.

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

Sincerely,
RESNA

Barbara Sieminski

Barbara Sieminski
Staff Geologist

Joel Coffman
Joel Coffman
Project Geologist

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

November 15, 1991
1023SHUG.771
61026.01

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

Subject: Site Status Update for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

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

Status of Previous Months Activities:

- August 12, 1991:** Resampled stockpiled soil generated from earlier excavation activities for the presence of petroleum hydrocarbons over acceptable landfill limits, prior to disposal.
- August 18, 1991:** Conducted monthly monitoring of groundwater monitoring wells to determine depth-to-water in each well.
- August 22, 1991:** Received a letter from Alameda County Health Care Services Agency (ACHCSA) dated August 19, 1991, regarding tank replacement and subsurface investigation at site.
- September 12, 1991:** Conducted monthly monitoring of groundwater monitoring wells to determine depth-to-water in each well.

- September 18, 1991: Hand bailed floating product from monitoring wells MW-1, MW-2 and MW-5.
- Submitted response letter to ACHSCA letter of August 19, 1991.
- October 9, 1991: Submitted draft Additional Subsurface Investigation Report to ARCO.
- October 21, 1991: Submitted final Additional Subsurface Investigation Report to ARCO and governing agencies.
- October 22, 1991: Performed third quarter 1991 quarterly groundwater monitoring and sampling. All wells without floating product MW-3, MW-4, and MW-7 were sampled for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH)-as-gasoline.
- October 23, 1991: Submitted to ARCO a proposal and an estimated budget to install floating product skimmers in monitoring wells MW-1, MW-2, and MW-5. These skimmers will serve as an interim product recovery/remediation system.
- Submitted to ARCO a proposal and an estimated budget to perform a vapor extraction test using the Cyclo Purge™ System.

Anticipated Work to be performed in the Next Month:

- o Continue monthly groundwater monitoring and quarterly sampling program for this site.
- o Submit third quarter groundwater monitoring report.
- o Conduct a vapor extraction test (VET) at the site using Cyclo Purge™ System.
- o Submit a proposal for conducting additional offsite assessment, installing product recovery pumps in wells MW-1, MW-2 and MW-5, and conduct a conventional VET.

Site Status Update
Arco Station No. 771, Livermore, California

November 15, 1991
61026.01

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

Sincerely,
RESNA



Valli Voruganti
Project Engineer



Joel Coffman
Project Geologist



A RESNA Company

RESNA

Working To Restore Nature

91 NOV 19 AM 8:56

TRANSMITTAL

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

TO: MS. SUISAN HIGO
ACHCSA
DEPARTMENT OF ENVIRONMENTAL HEALTH
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94624

DATE: 11/15/91
PROJECT NUMBER: 61026.01
SUBJECT: SITE SAFETY UPDATES

FROM: JOEL COFFMAN
TITLE: PROJECT GEOLOGIST

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings
- Prints
- Reports
- Specifications
- Letters
- Change Orders
- SEE BELOW

COPIES	DATED	NO.	DESCRIPTION
1 EACH	11/15/91		SITE SAFETY UPDATES FOR ARGO STATIONS 6113, 6148, 771, AND 374.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: CC: MR. CHUCK CARMEL OF ARCO PRODUCTS COMPANY.

Copies: 1 to AGS project file no. 61026.01
ARCO/61026/61026.01

SAN JOSE READER'S FILE
Revision Date: 10/15/90
File Name: TRANSMT.PRJ

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

Mailing Address: Box 6411
Artesia, California 90702-6411



91 OCT 31 11:27

October 29, 1991

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

Certified Mail

RE: UST PERMITS

Dear Mr. Smith:

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

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

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

Arco Facility #4494
566 Hegenberger Rd.
Oakland

Arco Facility #6002
6235 Seminary Ave.
Oakland

Mr. Smith
October 29, 1991
Page 2

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

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

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

I look forward to hearing from you.

Sincerely,

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

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

Attachment

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

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE	ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA 94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA 94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA 94550	3RD ST/S LIVERMORE A	415-449-1448
00608	JAI ME & LEONORA ABADAM <i>Sgn ✓</i>	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00771	JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA 94550	PINE/RINCON AVE	415-447-1329
02035	RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU	ALBANY	CA 94706	MARIN/SAN PABLO AVE	415-525-1362
02107	PRITINDER ARORA	3310 PARK BLVD.	OAKLAND	CA 94610	MACARTHUR/PARK BLVD	415-532-1716
02112	JAVAD ROOSHAN <i>Sgn ✓</i>	1260 PARK STREET	ALAMEDA	CA 94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA 94546	GROVE/CENTER ST	415-581-1268
02169	RAMESH SOOD	889 W GRAND AVE	OAKLAND	CA 94607	MARKET/W GRAND AVE	415-465-4450
02185	B J A INC	9800 E 14TH ST	OAKLAND	CA 94603	98TH/E 14TH	415-568-0590
04494	KHALIL N ROOSHAN <i>Sgn ✓</i>	566 HEGENBERGER RD.	OAKLAND	CA 94605	EDES/HEGENBERGER RD	415-569-7561
04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD	OAKLAND	CA 94611	WEST/W MACARTHUR BLV	415-658-5000
04977	MICHAEL SEROY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	WISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL <i>Sgn ✓</i>	6235 SEMINARY AVENUE	OAKLAND	CA 94605	HWY 580/SEMINARY	415-633-1042
06041	RONALD E TEUTSCH	7249 VILLAGE PARKWAY	DUBLIN	CA 94566	AMADOR/VILLAGE PKWY	415-828-3163
06113	PRESTIGE STATIONS INC 5158	785 E STANLEY BLVD	LIVERMORE	CA 94550	MURRIETTA/E STANLEY	415-449-2024
06148	JIN H KANG	5131 SHATTUCK AVE.	OAKLAND	CA 94609	52ND/SHATTUCK	415-654-3461

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



September 23, 1991

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

Subject: Alameda County Health Care Services Agency letter regarding ARCO Station 771 at 899 Rincon Avenue, Livermore, California.

Dear Ms. Hugo:

This letter is submitted in response to your letters dated August 19, and September 16, 1991 concerning the review of the RESNA/Applied GeoSystems Quarterly Ground-Water Monitoring Report (Second Quarter 1991) at ARCO Station 771 submitted July 11, 1991 by RESNA/Applied GeoSystems and the Barghausen Consulting Engineers Underground Tank Closure and Installation Plan. The responses to your letter are presented in the order in which they appear in your letter.

- * From these results, it is evident that ground water has been impacted by hydrocarbon contamination at the site. The extent of the hydrocarbon plume must be delineated.

The work plan submitted for defining the extent and concentration of hydrocarbons at the site and approved by this department on May 31, 1991 must be implemented.

Implementation of the work plan began in June when Mr. Gil Wistar was sent a letter stating the proposed work was to begin. Mr. Wistar never responded to repeated phone calls or the letter (attached) and the additional proposed work in the above-referenced work plan began in July 1991 with the final report to be prepared and issued late September/early October 1991.

90:8113 00 2ES 15

- * **This department has received a plan for the removal of the four underground tanks currently on-site. However, approval of the closure plan is pending until ARCO provides the information requested in the May 31, 1991 correspondence sent by this office. The analytical parameters for soil/ground-water samples to be taken during the removal must be specified. It is unclear if the tank removal will commence before or after the installation of additional monitoring wells. Installation of boring B-10 (MW-7) in the location between the vicinity of two tanks might be destroyed during the removal of the four underground tanks.**

Work outlined in the above-referenced work plan has been implemented at the site as approved by Mr. Wistar's letter of May 31, 1991. As stated above, several attempts were made to contact Mr. Wistar by telephone to inform him the subsurface environmental investigation would proceed before the tank replacement, however, calls were not returned and I have since learned he has terminated employment with your agency.

During tank removal and replacement at the site, soil and/or groundwater samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) and Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX) by appropriate Environmental Protection Agency (EPA) methods. Diesel has not been stored on the site therefore analysis for total petroleum hydrocarbons as diesel (TPHd) is not necessary and ARCO requests this item be removed from the list of items requested in the letter dated September 16, 1991. Also, as part of the recently completed subsurface investigation, a boring was drilled and sampled through the former waste-oil tank pit and samples analyzed for total oil and grease. Results of these analysis will be in the forthcoming report associated with the subsurface environmental investigation. Therefore, we also ask this item be deleted from the list of requested analyses to be performed in conjunction with tank removal and replacement.

Your concern for the location of monitoring well MW-7 is appreciated and the actual location of the well was moved to the north in the downgradient direction between the underground gasoline-storage tanks and the station building. A copy of the surveyed well locations is included and will be included in the forthcoming report.

Response to ACHCSA letter of 9-17-91
ARCO Station 771, Livermore, California

September 23, 1991
60000.06

As for the planned underground storage tank removal and replacement schedule at the site, ARCO plans to perform the replacement in late 1991 to early 1992. For a more accurate date or other information you may need concerning this tank replacement, please contact Mr. Chase J. Jiannalone, Construction Manager for ARCO Products Company. He may be reached at the following address:

ARCO Products Company
P.O. Box 6411
Artesia, California 90702-6411

In addition to the above-referenced work, quarterly monitoring and sampling is continuing at the site with reports being issued in a timely fashion.

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

Sincerely,



Chuck Carmel
ARCO Products Company

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

COPY

June 24, 1991
AGS 60000.06
0624gwis

Mr. Gil Wistar
Alameda County Health Care
Services Agency
80 Swan Way, Room 200
Oakland, California 94621

Subject: Implementation of Work described in Work Plan and Addendum One to Work Plan (Applied GeoSystems, May 15, 1991) for ARCO Station 771, 899 Rincon Avenue, Livermore, California.

Dear Mr. Wistar:

This letter is to inform you the next phase environmental investigation at the subject will commence June 28, 1991 with work described in the subject Addendum One to Work Plan. This work was approved by you in a letter addressed to ARCO Products Company dated May 31, 1991.

If you have any questions, please contact us at (408) 264-7723.

Sincerely,
RESNA/Applied GeoSystems



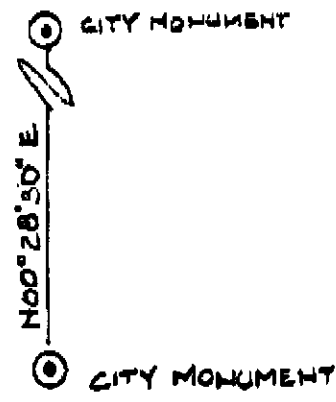
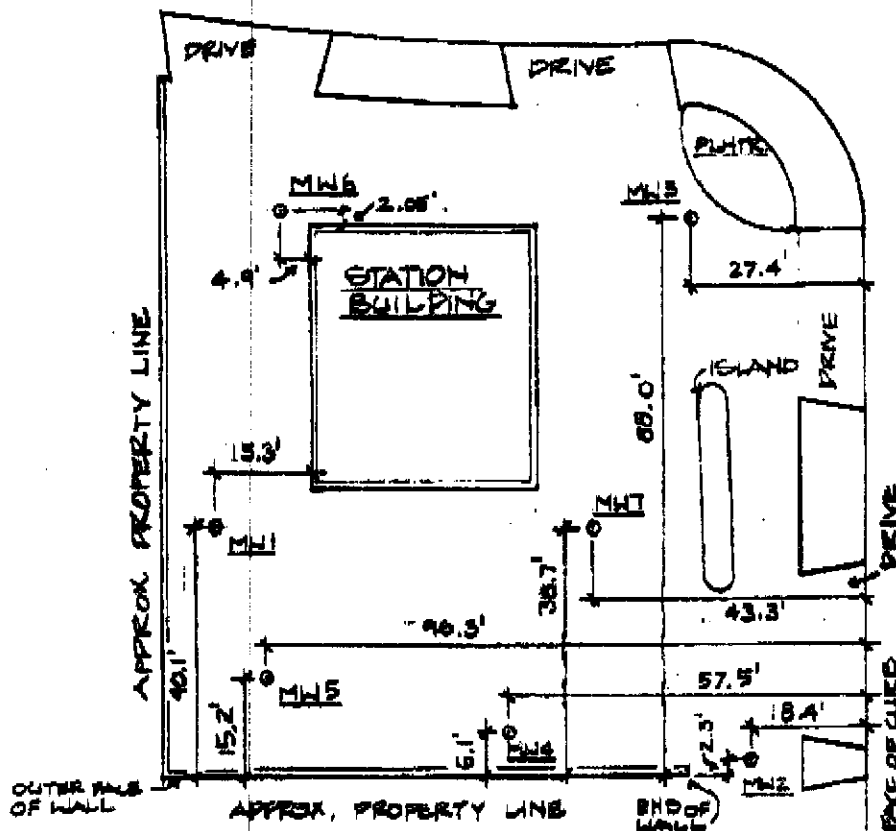
Joel Coffman
Assistant Project Geologist

COPY

cc: Mr. Chuck Carmel, ARCO Products Company

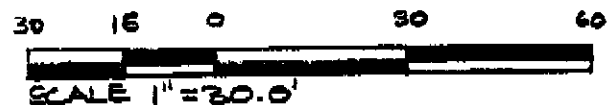
COPY**RESNA**

PINE STREET



ELEVATIONS

WELL NUMBER	TOP OF CASING	TOP OF BOX
MW1	451.80'	452.08'
MW2	449.51'	450.05'
MW3	450.28'	450.56'
MW4	451.56'	451.80'
MW5	451.41'	452.10'
MW6	451.38'	451.65'
MW7	450.65'	451.34'



SITE

ARCO STATION #771
 899 RINCON AVE. @ PINE
 LIVERMORE, CA ASG. PROJECT 60000.06

CLIENT

APPLIED GEOSYSTEMS
 3315 ALMADEN EXPRESSWAY, SUITE 34
 SAN JOSE, CA 95118 (408) 264-2435

JOHN E. KOCH

Land Surveyor

CA State Lic. No. LS4811

5427 Telegraph Ave., Suite A

Oakland, CA 94609

(415) 655-9956

FAX (415) 655-9745

JOB#	91007	DATE	8.1.91
DRWN. BY	R. GRAY		

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 19, 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: Second Quarter 1991 Ground-Water Monitoring Report for
ARCO Station - 899 Rincon Avenue, Livermore, CA 94550**

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the Quarterly Groundwater Monitoring Report (Second Quarter 1991) prepared by Applied GeoSystems on July 11, 1991 for the referenced site.

Results of the Second Quarter 1991 groundwater monitoring indicated the following:

- Presence of floating product consistently detected in MW-2 since January, 1991 during each monthly sampling event
- Increasing levels of dissolved contaminants (TPHg, & BTXE) found in MW-3 since January, 1991
- High levels of dissolved contaminants (TPHg-98,000 ppb; Benzene-11,000 ppb; Toluene-18,000 ppb; Ethyl Benzene - 2,800 ppb; Xylene-20,000 ppb) were detected in MW-1

From these results, it is evident that groundwater has been impacted by hydrocarbon contamination at the site. The extent of the hydrocarbon plume must be delineated.

The work plan submitted for defining the extent and concentration of hydrocarbons at the site and approved by this department on May 31, 1991 must be implemented.

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

Mr. Charles Carmel
August 19, 1991
Page 2 of 2

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

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

This department has received a plan for the removal of the four underground tanks currently on-site. However, approval of the closure plan is pending until Arco provides the information requested in the May 31, 1991 correspondence sent by this office. The analytical parameters for soil/groundwater samples to be taken during the removal must be specified. It is unclear if the tank removal will commence before or after the installation of additional monitoring wells. Installation of boring B-10 (MW-7) in the location between the vicinity of two tanks might be destroyed during the removal of the four underground tanks.

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.

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

Sincerely,

Susan L. Hugo

Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Eddie So, San Francisco Bay RWQCB
Howard Hatayama, State Department of Health Services
Joel Coffman, Applied GeoSystems (3315 Almaden Expressway,
Suite 34, San Jose, CA 95118)
Danielle Stefani, Livermore Fire Dept.
Mark Thompson, Alameda County District Attorney's Office
Files

899 Rincon Ave., Livermore - #771

VIOLATION HISTORY AND SITE STATUS AS OF 1/28/91:

(Note: In August 1987, a waste oil tank was removed. The removal report indicated elevated levels of TPH - motor oils in soils beneath the tank. Though contaminated soil removed, apparently no work done to assess groundwater impact.)

No quarterly reports submitted to County for these single walled tanks.

T.23 - 2644(e)
H/S 25299(b)(6)
H/S 25299(b)
\$5,000/day

At 2/22/90 inspection, daily inventory records not maintained on site.

T.23 - 2712(c)
H/S 25299(a)(6)
H/S 25299(b)(4)
H/S 25299(b)
\$5,000/day

In 1989, one of the unleaded tanks failed its precision test. (Note: ARCO has submitted no documentation to County that the tank was repaired. Possible H/S 25189(d) and H/S 25299(b)(2) violations if tank continued to be operated without repair.)

On February 5, 1990, ARCO reports finding elevated levels of gasoline, with free product found at 33 feet in a soil boring. ARCO delays an adequate site assessment (and, a comprehensive final remedial action plan) when tank replacement is postponed.

H/S 25189(d)
\$25,000/day

Free product discovery indicates benzene present at action levels.

H/S 25249.5
H/S 25249.7
\$2,500/day

In early January, 1991, Livermore Fire Inspector observes an unprotected pile of dirt on site. The soil probably is from borings as this site's soil and groundwater has been impacted. The pile was prone to run off and cars were driving over the pile. Improper labeling and storage of hazardous waste. Improper disposal of hazardous waste.

T.22 - 66508
H/S 25189(b)
\$25,000/day
H/S 25189.5
\$25,000/day
F/G 5650(a)
B/P 17200
\$2,500/day

In January, 1991, ARCO was dispensing gasoline without having obtained a city dispensing permit for flammable or combustible liquids.

Chapter 15
Ordinance 1342
B/P 17200
\$2,500/day

SITE DEVELOPMENTS SUBSEQUENT TO MARCH 13, 1991:

Elaine Lavine has contacted Livermore regarding permit information.

In its April 16, 1991, site summary, ARCO detailed a brief site history and workplan to be submitted May 15, 1991. Some comments regarding that summary:

- In August, 1987, elevated levels of TPH-motor oils was discovered in soil beneath the waste oil tank. In 1989, one tank failed a precision test. In February, 1990, free product identified on groundwater in one of three onsite soil borings. ARCO's justification for not immediately commencing site assessment is remarkably candid: "ARCO planned to conduct further assessment following completion of the tank replacement project rather than abandoning and replacing monitoring wells destroyed during the tank replacement".
- When ARCO delays tank replacement, it proposes a workplan that results in interim manual well pumping commencing in January, 1991 - eleven months after the discovery of free product. A workplan for a dedicated fluid recovery pump installation was to be submitted 5/15/91 - fifteen months after the discovery of free product.
- ARCO now plans tank replacement during the summer of 1991. Its workplan for defining the extent and concentration of hydrocarbons beneath the site by installing five additional borings, four of which will be completed as monitoring wells was approved May 31, 1991. It appears assessment will coincide with tank replacement. A comprehensive final remedial action plan is promised after tank replacement. Observation: ARCO delayed assessment until it was ready to replace the tanks - when tank replacement was delayed last year, rather than assess and remediate, it simply postponed

assessment.

August 7, 1991 Update:

- Since Gil Wistar's May 31, 1991, letter approving the workplan, Alameda Co. Health has heard nothing about the installation of the approved five additional soil borings. Wistar did not approve the closure plan because "analytical parameters for soil/groundwater samples to be taken during the removal have not been specified". County has yet to be provided that specification. Wistar asked, "does ARCO plan the tank removal before or after the additional monitoring wells are installed?" County has yet to receive a reply.
- Although in its July 3, 1991, memo ARCO advises "Installation of four monitoring wells commenced 6/28/91", Alameda Co. Dept. of Health has not been informed re MW progress.
- We note that ARCO's July 3, 1991, summary states, "Interim free product recovery bailing temporarily terminated because of the lack of any free product in site wells since 2/91" and the plan to install a fluid pump recovery system is "impractical".
- A quarterly report for groundwater monitoring dated July 12, 1991, indicates that April 10, 1991, sampling at MW-2 determined .02 ft free product, 98,000 ppb TPH (gasoline) and strong odor at MW-1, and 530 ppb TPH (gasoline) at MW-3. That report also indicates sampling on March 20, 1991, at MW-1 determined a sheen and .05 feet free product at MW-2.

Observation: Once again ARCO's failure to remediate permits impact to groundwater. Free product was re-discovered on March 20, 1991, yet, as late as July 3, 1991, ARCO would write pumping is "impractical". County Health will be writing ARCO demanding a proposal to address the groundwater problem; we wonder why ARCO hasn't simply taken the initiative and done something rather than waiting to be prodded by Health. ARCO has the data. It knows what should be done.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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
899 Rincon Avenue, Livermore 94550**

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) 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. I made a note of this information in the closure plan.
- 2) 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.
- 3) The soil and/or groundwater samples must be analyzed for the following contaminants: Total Petroleum Hydrocarbon (TPH) as gasoline; TPH as diesel; Benzene, Toluene, Ethyl Benzene, Xylene (BTXE); Total Lead; and Oil and Grease. This office had previously requested for this information but did not get any response. In order to proceed with the tank removal, I made a note in the closure plan that the samples must be analyzed for these contaminants. TPH as diesel and Oil and Grease are included as target contaminants because of the unauthorized leak from the waste oil tank which was removed in 1987 at the site.
- 4) 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 name of the nearest hospital.

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

Mr. Paul Wilton
Barghausen Consulting Engineers
September 16, 1991
RE: 899 Rincon Ave. Livermore
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 if applicable.
- 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 **overflow 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 items listed above are met.

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

Sincerely,

Susan Hugo

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

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

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE	ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA 94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA 94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA 94550	3RD ST/S LIVERMORE A	415-449-1448
00608	JAIME & LEONORA ABADAM <i>Sgnv</i>	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00	JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA 94550	PINE/RINCON AVE	415-447-1329
02035	RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU	ALBANY	CA 94706	MARIN/SAN PABLO AVE	415-525-1362
02107	PRITINDER ARORA	3310 PARK BLVD.	OAKLAND	CA 94610	MACARTHUR/PARK BLVD	415-532-1716
02112	JAVAD ROOSHAN <i>Sgnv</i>	1260 PARK STREET	ALAMEDA	CA 94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA 94546	GROVE/CENTER ST	415-581-1268
02169	RAMESH SOOD	889 W GRAND AVE	OAKLAND	CA 94607	MARKET/W GRAND AVE	415-465-4450
02185	B J A INC	9800 E 14TH ST	OAKLAND	CA 94603	98TH/E 14TH	415-568-0590
04494	KHALIL N ROOSHAN <i>Sgnv</i>	566 HEGENBERGER RD.	OAKLAND	CA 94605	EDES/HEGENBERGER RD	415-569-7561
04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD	OAKLAND	CA 94611	WEST/W MACARTHUR BLV	415-658-5000
04977	MICHAEL SERDY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	HISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL <i>Sgnv</i>	6235 SEMINARY AVENUE	OAKLAND	CA 94605	HWY 580/SEMINARY	415-633-1042
06041	RONALD E TEUTSCH	7249 VILLAGE PARKWAY	DUBLIN	CA 94566	AMADOR/VILLAGE PKWY	415-828-3163
06113	PRESTIGE STATIONS INC 5158	785 E STANLEY BLVD	LIVERMORE	CA 94550	MURRIETTA/E STANLEY	415-449-2024
06148	JIN H KANG	5131 SHATTUCK AVE.	OAKLAND	CA 94609	52ND/SHATTUCK	415-654-3461

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



Date: October 14, 1991

Re: ARCO Station #

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

Submitted by:

Kyle A. Christie
Environmental Engineer

91 OCT 15 PM 3:29

October 14, 1991

Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

Attention: Mr. Edgar Howell

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:


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

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

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

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

Sincerely,


Kyle A. Christie
Environmental Engineer

Attachments:
ARCO Facility QSRs

UST LEAK Date of Last Current
SITE UPDATE Review/Update April 15, 1991 Date September 6, 1991

SITE IDENTIFICATION

Name ARCO Service Station 771 Case No. _____
Address 899 Pincon Avenue/Pine Street
Street Number Street
Livermore 94550
City ZIP Code
County Alameda Substance Gasoline
Local Agency Alameda County Health Care Services Agency
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON ACHCSA - Susan Hugo

CASE TYPE

Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)

<input type="checkbox"/> No Action Taken	Date	_____
<input checked="" type="checkbox"/> Leak Being Confirmed	Date	<u>8/87</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date	<u>9/24/90</u>
<input checked="" type="checkbox"/> Preliminary Site Assessment Underway	Date	<u>12/90</u>
<input checked="" type="checkbox"/> Pollution Characterization	Date	<u>7/91</u>
<input type="checkbox"/> Remediation Plan	Date	_____
<input type="checkbox"/> Remedial Action Underway	Date	_____
<input type="checkbox"/> Post Remedial Action Monitoring	Date	_____
<input type="checkbox"/> Case Referred to Regional Board	Date	_____
<input type="checkbox"/> Case Referred to Dept. of Health Services	Date	_____
<input type="checkbox"/> Case Closed	Date	_____

REMEDIAL ACTIONS

None.

COMMENTS

Last Quarter Activities: Performed supplemental assessment at site.

Current Quarter Activities: Submitted assessment report (April 12, 1991). Performed quarterly groundwater monitoring and reporting. Prepare and submit Work Plan for subsurface investigation and remediation (May 15, 1991). Performed additional assessment.

Next Quarter Activities: Submit report of Additional Assessment. Perform quarterly groundwater monitoring and reporting.

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

REPORTDATECONSULTANT

Letter Report on Quarterly Ground-
Water Monitoring, Second Quarter 1991
60000.06

7/11/91

RESNA

Work Plan and Addendum One to Work Plan
for Subsurface Investigation and Remediation
AGS 60000.06

5/15/91

RESNA/Applied
GeoSystems

Report on Supplemental Subsurface
Investigation
AGS 60000.04

4/12/91

RESNA/Applied
GeoSystems

Work Plan Supplemental Subsurface
Investigation
AGS 60000-3

8/31/90

Applied
GeoSystems

Report on Limited Subsurface Environmental
Assessment
AGS 60000-1

6/22/90

Applied
GeoSystems

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 19, 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: Second Quarter 1991 Ground-Water Monitoring Report for
ARCO Station - 899 Rincon Avenue, Livermore, CA 94550**

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the Quarterly Groundwater Monitoring Report (Second Quarter 1991) prepared by Applied GeoSystems on July 11, 1991 for the referenced site.

Results of the Second Quarter 1991 groundwater monitoring indicated the following:

- Presence of floating product consistently detected in MW-2 since January, 1991 during each monthly sampling event
- Increasing levels of dissolved contaminants (TPHg, & BTXE) found in MW-3 since January, 1991
- High levels of dissolved contaminants (TPHg-98,000 ppb; Benzene-11,000 ppb; Toluene-18,000 ppb; Ethyl Benzene - 2,800 ppb; Xylene-20,000 ppb) were detected in MW-1

From these results, it is evident that groundwater has been impacted by hydrocarbon contamination at the site. The extent of the hydrocarbon plume must be delineated.

The work plan submitted for defining the extent and concentration of hydrocarbons at the site and approved by this department on May 31, 1991 must be implemented.

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

Mr. Charles Carmel
August 19, 1991
Page 2 of 2

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

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:

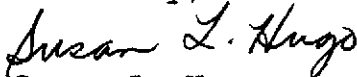
RWQCB
2101 Webster Street, 4th Floor
Oakland, CA 94612
Attn: Eddie So

This department has received a plan for the removal of the four underground tanks currently on-site. However, approval of the closure plan is pending until Arco provides the information requested in the May 31, 1991 correspondence sent by this office. The analytical parameters for soil/groundwater samples to be taken during the removal must be specified. It is unclear if the tank removal will commence before or after the installation of additional monitoring wells. Installation of boring B-10 (MW-7) in the location between the vicinity of two tanks might be destroyed during the removal of the four underground tanks.

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.

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

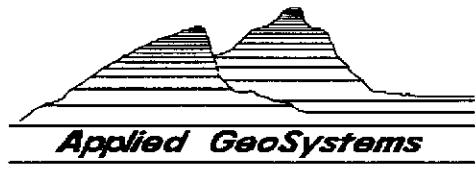
Sincerely,



Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Eddie So, San Francisco Bay RWQCB
Howard Hatayama, State Department of Health Services
Joel Coffman, Applied GeoSystems (3315 Almaden Expressway,
Suite 34, San Jose, CA 95118)
Danielle Stefani, Livermore Fire Dept.
Mark Thompson, Alameda County District Attorney's Office
Files

ST 10 3A73
S&J



TRANSMITTAL

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

TO: MR. GIL WISTAR
ALAMEDA COUNTY HEALTH CARE
SERVICES AGENCY
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94621

DATE: 6/24/91
PROJECT NUMBER: AGS 60000.06
SUBJECT: ARCO STATION 771, 899
RINCON AVENUE, LIVERMORE, CALIFORNIA

FROM: MR. JOEL COFFMAN
TITLE: ASST. PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION
1	6/24/91		IMPLEMENTATION OF WORK DESCRIBED IN WORK PLAN AND ADDENDUM ONE TO WORK PLAN FOR THE ABOVE SUBJECT SITE.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: _____

Copies: 1 to AGS project file no. 60000.06
C. CARMEL, ARCO

SAN JOSE READER'S FILE
*Revision Date: 10/15/90
*File Name: TRANSMT.PRJ



Applied GeoSystems

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

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

June 24, 1991

0624gwis

AGS 60000.06

Mr. Gil Wistar
Alameda County Health Care
Services Agency
80 Swan Way, Room 200
Oakland, California 94621

Subject: Implementation of Work described in Work Plan and Addendum One to
Work Plan (Applied GeoSystems, May 15, 1991) for ARCO Station 771, 899
Rincon Avenue, Livermore, California.

Dear Mr. Wistar:

This letter is to inform you the next phase environmental investigation at the subject will commence June 28, 1991 with work described in the subject Addendum One to Work Plan. This work was approved by you in a letter addressed to ARCO Products Company dated May 31, 1991.

If you have any questions, please contact us at (408) 264-7723.

Sincerely,
RESNA/Applied GeoSystems

Joel Coffman
Assistant Project Geologist

cc: Mr. Chuck Carmel, ARCO Products Company

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



May 31, 1991

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

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

JUN 8 1991

QUALITY CONTROL BOARD

Re: Work plan submitted for ARCO Station #771, 899 Rincon Ave.,
Livermore

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the above work plan, which calls for the installation of five additional soil borings at the site, four of which will be completed as monitoring wells. This plan is acceptable as a next step in defining the extent and concentration of hydrocarbons beneath the site.

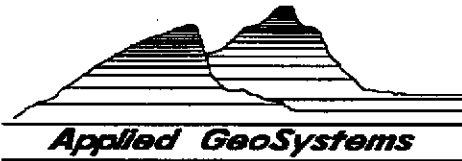
We have recently received a plan for removal of the four remaining tanks on-site, and have not yet accepted this closure plan because analytical parameters for soil/groundwater samples to be taken during the removal have not been specified. We will be able to approve the closure plan as soon as this information is provided. This brings up a question: does ARCO plan the tank removal before or after the additional monitoring wells are installed? If boring B-10 (MW-7) were installed prior to tank removal, it is possible that excavation during removal would destroy this well.

If you have any questions concerning this letter, please contact the undersigned at 271-4320.

Sincerely,

Gil Wistar
Hazardous Materials Specialist

c: Danielle Stefani, Livermore Fire Dept.
Lester Feldman, RWQCB
Mark Thomson, Alameda County District Attorney's Office
Rafat A. Shahid, Asst. Agency Director, Environmental Health files



91 APR 18 10:24
TRANSMITTAL

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

TO: MR. GIL WISTAR DATE: 4/15/91
ALAMEDA COUNTY HEALTH AGENCY PROJECT NUMBER: 60000.04
DEPARTMENT OF ENVIRONMENTAL HEALTH SUBJECT: REPORT (ARCO STATION 771)
80 SWAN WAY ROOM 200
OAKLAND CA 94621

FROM: JOEL COFFMAN
 TITLE: ASST. PROJECT GEOLOGIST

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

Shop drawings Prints Reports Specifications

Letters Change Orders _____

COPIES	DATED	NO.	DESCRIPTION
1	4/12/91	60000.04	FINAL REPORT ON SUPPLEMENTAL SUBSURFACE INVESTIGATION AT THE ABOVE SITE.

THESE ARE TRANSMITTED as checked below:

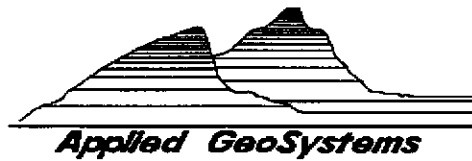
- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files _____

REMARKS: PER ARCO'S AUTHORIZATION REPORT HAS BEEN FORWARDED
FOR YOUR REVIEW.

Copies: 1 to AGS project file no. 60000.04

SAN JOSE READER'S FILE
 *Revision Date: 10/15/90
 *File Name: TRANSMT.PRJ

6.8



TRANSMITTAL

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

TO: MR. RAFAT SHAHID
COUNTY OF ALAMEDA
DEPARTMENT OF ENVIRONMENTAL HEALTH
80 SWAN WAY, ROOM 200
OAKLAND, CALIFORNIA 94621

DATE: 4/12/91
PROJECT NUMBER: AGS 19011-1
SUBJECT: FIRST QUARTER 1991
ARCO SUMMARY REPORTS

FROM: MR. GREG BARCLAY
TITLE: GENERAL MANAGER

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

COPIES	DATED	NO.	DESCRIPTION
1	4/12/91	19011-1	FIRST QUARTER 1991 SUMMARY REPORTS FOR VARIOUS ARCO SERVICE STATIONS IN ALAMEDA COUNTY.

THESE ARE TRANSMITTED as checked below:

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

REMARKS: THESE REPROTS ARE BEING FORWARDED TO YOU ON BEHALF OF
MR. KYLE CHRISTIE OF ARCO PRODUCTS COMPANY.
SUMMARY REPORT FOR ARCO STATION #5369 IS ALSO INCLUDED.

91 APR 15 AM 7:10

Copies: 1 to AGS project file no. 19011-1

SAN JOSE READER'S FILE

*Revision Date: 10/15/90
*File Name: TRANSMT.PRJ



Applied GeoSystems

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

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

April 12, 1991

0412rsha

Mr. Rafat Shahid
County of Alameda
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Subject: First Quarter 1991 Summary Reports for various ARCO Service Stations located in Alameda County, California.

Mr. Shahid:

Enclosed are the Quarterly Summary Reports for various ARCO Service Stations in Alameda County, California, as listed below. We are sending you these reports on behalf of Mr. Kyle Christie of ARCO Products Company.

1260 Park Street	Alameda ✓	Service Station 2112
1001 San Pablo Avenue	Albany ✓	Service Station 2035
3000 Shattuck Avenue	Berkeley	Service Station 414
22141 Center Street	Castro Valley	Service Station 2152
2770 Castro Valley Road	Castro Valley ✓	Service Station 4977
40055 Blacow Road	Fremont ✓	Service Station 2147
35900 Fremont Boulevard	Fremont ✓	Service Station 2158
40077 Mission Boulevard	Fremont ✓	Service Station 6201
43500 Grimmer Boulevard	Fremont ✓	Service Station 6206
365 Jackson Street	Hayward ✓	Service Station 1319
→ 899 Rincon Avenue	Livermore ✓	Service Station 771 ←
10600 MacArthur Blvd.	Oakland ✓	Service Station 276
6407 Telegraph Avenue	Oakland ✓	Service Station 374
2110 Mountain/Merced	Oakland ✓	Service Station 623
3310 Park Boulevard	Oakland ✓	Service Station 2107
889 West Grand Avenue	Oakland ✓	Service Station 2169
556 Hegenberger Road	Oakland ✓	Service Station 4494
731 W. MacArthur Blvd.	Oakland ✓	Service Station 4931
52nd Street	Oakland ✓	Service Station 6148

Quarterly Summary Reports
Alameda County, California

April 12, 1991
AGS 19011-1

15135 Hesperian Blvd.
17601 Hesperian Blvd.

San Leandro ✓
San Lorenzo ✓

Service Station 2162
Service Station 608

The Regional Water Quality Control Board and ARCO Products Company have no records for the following service station:

1401 Grand Avenue

San Leandro

Service Station 530

We understand that ARCO does not own the service station located at 4191 First Street in Pleasanton, California. Please call me at (408) 264-7723 if you have questions regarding the summary reports.

Sincerely,
Applied GeoSystems



Greg Barclay
Branch Manager

Enclosures: First Quarter 1991 Summary Reports

cc: Mr. Kyle Christie, ARCO Products Company

REPORT

DATE

CONSULTANT

Limited Environmental Site Assessment
AGS 60000-1

6/22/1990

Applied
GeoSystems

Work Plan
AGS 60000-3

9/30/1990

Applied
GeoSystems

592426
1,074
5/1/91

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

Project Specialist (print) SUSAN L. HUGO

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 274-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project presented herein is now referred for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and modifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department of least 48 hours prior to the following required inspections:

- Removal of Tank and Piping
- Sampling
- Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

*Please note change made on
page 1, 4, 5 & the site health &
safety plan page 2.*

*Susan L. Hugo
11/12/91*

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

1. Business Name ARCO AM/PM Mini-Market
Business Owner Atlantic Richfield Company
 2. Site Address 899 Rincon Avenue
City Livermore, CA Zip 94550 Phone 415-373-7940
 3. Mailing Address same
City _____ Zip _____ Phone _____
 4. Land Owner Atlantic Richfield Company
* Address 17315 Studebaker Rd City, State Cerritos, CA Zip 90701-4458
2000 Alameda de las Pulgas City, State San Mateo, CA Zip 94403
 5. Generator name under which tank will be manifested _____
Atlantic Richfield Company
- EPA I.D. No. under which tank will be manifested CAL000028370

6. Contractor Gettler Ryan
Address 2150 West Winton Avenue
City Hayward, CA 94545 Phone 415-783-7500
License Type B/C61/D40 ID# 94-155-1136

7. Consultant Barghausen Consulting Engineers
Address 4612 Roseville Road, Suite 103
City North Highlands, CA 995660 Phone 916-348-3057

8. Contact Person for Investigation
Name Paul Wilton Title Design Engineer
Phone 916-348-3057

9. Number of tanks being closed under this plan 4
Length of piping being removed under this plan 70' x 4 pipes
Total number of tanks at facility 4

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

**** Underground tanks are hazardous waste and must be handled **
as hazardous waste**

a) Product/Residual Sludge/Rinsate Transporter

Name H&H Ship Service Co. EPA I.D. No. CAD 004771168
Hauler License No. 0334 License Exp. Date 1-31-92
Address 220 China Basin Street
City San Francisco State CA Zip 94107

b) Product/Residual Sludge/Rinsate Disposal Site

Name same as above EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

c) Tank and Piping Transporter

Name same as above EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

d) Tank and Piping Disposal Site

Name same as above EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

11. Experienced Sample Collector

Name Dave Byron
Company Gettler Ryan Inc.
Address 2150 Winton Avenue
City Hayward State CA Zip 94545 Phone 415-783-7500

12. Laboratory

Name IT Analytical Labs
Address 2055 Junction Avenue
City San Jose State CA Zip 95030
State Certification No. 137

13. Have tanks or pipes leaked in the past? Yes [] No []

If yes, describe. ~~UNKNOWN~~ 1989 failed precision test

14. Describe methods to be used for rendering tank inert

dry ice

* Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
UNL. 4,000 GAL.	INSTALLED 11-65	WATER	* SEE ATTACHED SOIL SAMPLING METHODS One from beneath the each end of the tank at the native soil / backfill interface but no greater than 2 feet below the tank bottom.
UNL. 4,000 GAL.	" 11-65	OIL	
SUP. 6,000 GAL.	" 11-65	SLUDGE	
REG. 10,000 GAL.	" 5-77	SOIL	
		Soil and/or groundwater if present.	

* One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Excavated/Stockpiled Soil

Stockpiled Soil Volume (Estimated)	Sampling Plan
<i>approx. 40 cu yds.</i>	<i>As stated in the Soil Sampling Methods form soil sample composited into one by the laboratory for every 50 cu yds. of stockpiled soil.</i>

* Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
<i>TPH gasoline</i>	<i>5030</i>	<i>GC FID</i>	<i>1.0 ppm (soil)</i>
<i>TPH diesel</i>	<i>3550</i>	<i>GC FID</i>	<i>1.0 ppm (soil)</i>
<i>BTX & E</i>	<i>8020 or 8240</i>	<i>8020 or 8240</i>	<i>0.005 ppm (soil)</i>
<i>O & G</i>	<i>5520 D & F</i>	<i>5520 D & F</i>	<i>50 ppm (soil)</i>
<i>Total Lead</i>		<i>AA</i>	

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

Name of Insurer Republic Indemnity

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

* 22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) David Byron -- Gettler Ryan

Signature David Byron

Date 4/25/91

Signature of Site Owner or Operator

Name (please type) Ron Knutson -- Atlantic Richfield Company

Signature Ron Knutson

Date 4/25/91

UNDERGROUND STORAGE TANK
CLOSURE SPECIFICATIONS

Prepared by

Barghausen Consulting Engineers, Inc.
for

ATLANTIC RICHFIELD COMPANY

FAC. NO. 771

ADDRESS: 899 Lincoln Ave. Livestock

1. SCOPE

When Drawings indicate that existing underground tanks are to be removed or abandoned, the Contractor is to do so according to the following instructions.

2. GENERAL

Before starting, check municipal ordinances and regulations of the state or governing bodies pertaining to underground storage tanks. These specifications are to be complied with as minimum requirements. Contractor is to obtain and pay for any necessary permits (unless ARCO has previously obtained them).

3. REMOVAL TO ANOTHER PROPERTY OR FOR SCRAP AS DIRECTED BY ARCO ENGINEER

- a. Disconnect and remove the suction, inlet, gauge and vent lines. Remove underwriter's labels and give to owner's engineer.
- b. Remove all product from the connecting lines and tank, flushing with water back to the tank. Use a vacuum truck or if unavailable, a hand pump, to remove the product remaining in the tank below all tank openings. Take precautions to prevent spilling even the smallest amount of product. All product removed from tank is to be disposed of by putting it into an active tank for the same kind of product, any sludge removed shall be disposed of as a hazardous waste according to regulations.
- c. Use all precautions against fire or flash of product vapors while working on the tank. Ground air movers to the tank or if fiberglass install an 8' ground rod in soil (not pea gravel) near the tank.
- d. Before starting work the Contractor should obtain a copy of "Cleaning, Petroleum Storage Tanks" publication RD 2015, published

UNDERGROUND STORAGE TANK CLOSURE SPECIFICATIONS

by American Petroleum Institute, 2101 "L" Street N.W., Washington, DC 20037. The following is an outline for bid purposes:

Gas free the tank by ventilating it with fresh air. Use an air mover (grounded) with a hose attached. If the tank has large openings a hose may (grounded) not be necessary; however, the air mover must be of the type that cannot provide an ignition source, since the vapor-air combination must go through the flammable range before becoming safe. The air mover must be electrically bonded to the tank. To minimize the hazard of going through the flammable range the tank can first be purged with an inert gas, then ventilated with air. Using dry ice (which dissolves into carbon dioxide) is a common method. The dry ice is broken up and distributed throughout the tank as much as possible.

Approximately 10 lbs. of dry ice per 1,000 gallons (some jurisdictions may require 15 lbs) will be required. Some jurisdictions will allow a tank to be transported if all openings are closed soon after the dry ice is introduced. First the amount of oxygen should be checked by an appropriate oxygen indicator. In most instances, however, the tank should be purged with air as described until the vapors are well within the non-combustible range as indicated by a combustible gas indicator.

- e. Cap or plug all inlets and outlets. One plug or cap must contain a 1/4-inch hole to permit the tank to breathe.
 - f. Transport to the designated location in accordance with local regulations. The local fire department(s) should be notified when the tank(s) are to be transported, and of the planned route.
 - g. Tank should be stored only on supervised property.
 - h. Tanks must be kept capped or plugged while in storage and must be plainly marked "NOT GAS FREE." Mechanical repairs, welding or boring must not be done on these tanks (even though once "Gas Free," vapors will return in a certain length of time).
 - i. Tanks being removed for scrap or use by others will become the property of the contractor who will be given a bill of sale by owner's engineer. They are the contractor's property and responsibility.
4. ABANDON IN PLACE <SECTION NOT APPLICABLE>
5. When the tank is removed the Contractor shall provide to the owner a document stating that the tank has been removed, where it was transported to, eventual method of disposal or re-use and name of the person or firm responsible for disposal or who is the re-use it. The method of disposal must be in accordance with all applicable regulations. The document is to be one approved by the Owner and all authorities having jurisdiction. The Owner will send this document to the appropriate local agency. When the tank is re-used, the document will state the new Owner, the new location, and the type of use.

UNDERGROUND STORAGE TANK CLOSURE SPECIFICATIONS

6. If the tank is abandoned, a similar document is to be provided to Owner for filing with the appropriate permitting agency. This document must be acceptable to Owner and the governmental agency. The Owner will also place a notice on the deed to the property describing the location, size and depth or burial of the tank, the type of product it contained and the material with which it was filled.
7. The Contractor will take soil samples in the vicinity of the tank being abandoned or removed when requested by Owner. Owner will require these unless it can be otherwise demonstrated that no unauthorized release (or leak) has occurred. The samples are to be taken in accordance with local regulations. The samples will be turned over to the Owner to be analyzed.
8. All product and sludge removed from any tank shall be disposed of by:
 - a. putting product into an active tank for the same kind of product.
 - b. sludge is to be taken to a hazardous waste site and disposed of according to regulations.

\\PGW\3\CLOSURE.SPC

SOIL SAMPLING METHODS

Sampling will be conducted in accordance with the following three regulatory documents: (1) Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, Tri-Regional Recommendations (California Regional Water Quality Control Board [CRWQCB] May 1989); (2) Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, Tri-Regional Recommendations, Appendix A: Central Valley Regional Board Reporting Requirements (CRWQCB, April 1989); and (3) Leaking Underground Fuel Tank (LUFT) Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure (CRWQCB, October 1989). A letter of acknowledgment and a signed Authorization to Release Analytical Data form is included as an attachment to this letter.

During sampling, the geologist will use a PID to characterize the relative levels of hydrocarbons in the soil and note any subjective evidence of hydrocarbons such as obvious product odor and discoloration. Field instruments such as the PID are useful for indicating relative levels of hydrocarbon vapors, but do not detect the concentration of hydrocarbons present with the same precision as laboratory analyses.

During sampling, the soil will be brought to the ground surface in an excavator bucket, and the outer soil will be scraped away. A clean, 6-inch-long, 2 1/2 inch-diameter, clear brass tube will be driven into the soil using a percussion sampler. The brass tube will be removed and the ends covered with aluminum foil and plastic end caps and taped. The tube will be labeled and immediately placed on ice for transport to the laboratory. Chain of Custody Records will be maintained throughout delivery to the laboratory.

Soil samples will also be collected from the stockpiled soil to evaluate treatment and disposal options. Four soil samples will be collected for every 50 cubic yards of stockpiled soil. Each group of four samples will be composited into one sample by the laboratory. Soil samples will be collected in clean brass tubes from approximately 18 inches below the surface of the stockpiles.

SITE, HEALTH, AND SAFETY PLAN

GENERAL INFORMATION

SITE: Company: ARCO
 Location: 299 PINCON AVE.
 City: LIVERMORE

PLAN PREPARED BY: Barghausen Consulting Engineers DATE: _____

OBJECTIVES: To provide a Site, Health, and Safety Plan for the safe completion of the site work.

PROPOSED DATE OF SITE WORK: Upon receipt of permits to perform the work.

DOCUMENTATION/SUMMARY: Hazardous material may be present, caution is advised.

SITE WASTE CHARACTERISTICS

WASTE TYPES(S): Liquid Solid
CHARACTERISTIC(S): Volatile Flammable Toxic
FACILITY DESCRIPTION: Gasoline service station with underground utilities.
STATUS: Active

HAZARD EVALUATION

PARAMETER: TLV 300 ppm HEALTH: ingestion, inhalation, absorption
 LEL 10% Gastechtor max.

SPECIAL PRECAUTIONS AND COMMENTS: No special precautions are expected to be needed. Confined space entry is not anticipated.

SITE SAFETY WORKPLAN: Work to be performed in accordance with sections 9.1 and 9.6 of the Barghausen Consulting Engineers Site Health and Safety Plan and per plan specifications.

PERIMETER ESTABLISHED: Lot to be fenced on all four sides.

PERSONNEL PROTECTION: Level of Protection EPA Level D

Modifications: None

Surveillance Equipment & Materials: Gastechtor or equivalent on site during tank removal.

SITE ENTRY PROCEDURES:

As per section 9.1 of the Safety Plan.

DECONTAMINATION PROCEDURES:

Personal: Wash thoroughly with detergent solution and water.

Equipment: Steam cleaning if needed.

FIRST AID:

As applicable

WORK LIMITATIONS:

(time of day, weather, heat/cold stress): as permitted

INVESTIGATION-DERIVED-MATERIAL DISPOSAL:

Soils and groundwater will be contained on site. Disposal method will be determined upon receipt of analytical results.

TEAM COMPOSITION:

* Field Superintendent: Mr. Jerry Walsh
will conduct pre-job site safety briefing with all personnel

* Field Foreman: Mr. Jerry Walsh
will act as the Site Safety Officer

All employees are responsible for the safe and proper completion of the project.

EMERGENCY INFORMATION:

LOCAL RESOURCES:

Ambulance/Hospital Dial 911
Police/Sheriff/Highway Patrol Dial 911
Fire Department Dial 911

SITE RESOURCES:

Water Supply 20 lb. Fire Extinguisher
Telephone First Aid Kit
Visqueen Sorbant Pads

EMERGENCY CONTACT:

* Name: Mr. Rick Henderson
Telephone: (415) 634-1998

EMERGENCY ROUTES:

1. Route to Nearest Fire Department:

* 2. Route to Nearest Hospital:
Valley Memorial 1111 E. Stanley Blvd.
Fullerton CA 92730
(415) 447-7000

* Fire Extinguisher must be at the site.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Certified Mailer # P 062 127 771

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

March 22, 1991

Mr. Kyle Christie
ARCO Products Co.
P.O. Box 5811
San Mateo, CA 94402

Re: **Site investigation status at ARCO #0771, 899 Rincon Ave.,
Livermore**

Dear Mr. Christie:

In a recent review of the file on this site, it has come to our attention that we have an incomplete picture of subsurface contamination at 899 Rincon Ave. Back in August 1987, a waste oil tank was removed from this address, and the removal report indicated elevated levels of TPH-motor oil in soils beneath this tank. Although it appears that contaminated soil around this tank was removed, no further work took place to assess the possible effects of this unauthorized release on groundwater. Therefore, we are requiring that ARCO install a monitoring well within 10 feet of and downgradient from the former location of this waste oil tank. Analyses of groundwater from this well must include TPH-G, TPH-D, TPH-motor oil, BTEX, and TOG. As with all monitoring wells, this well will require quarterly sampling.

According to a later Unauthorized Release Report, dated February 5, 1990, samples from several "routine" soil borings were found to contain elevated levels of gasoline, with free product found at a depth of 33 feet in one of the borings. In this Report, under the heading **Method used to stop discharge**, "replace tank" is noted. In response to concerns that this office raised about contamination on-site, Applied Geosystems submitted a work plan for the installation of three soil borings/monitoring wells, in September 1990. The work plan included a schedule for well installation (October 1990), and for the initial sampling and analysis (November). A report was to be completed in December 1990.

However, as of the date of this letter, we have received nothing beyond the September work plan. Please note that we are requiring ARCO to submit to this office the following items by April 15, 1991:

- The well installation and initial sampling report from Applied Geosystems;

Mr. Kyle Christie

March 22, 1991

Page 2 of 2

- A report documenting the first quarterly sampling that occurred 90 days after the initial sampling; and
- A schedule for further work at the site, including the installation of additional monitoring wells (e.g., beneath the former waste oil tank), quarterly sampling, report submittals, and tank removal. This information should be conveyed in letter form and must be signed by a duly authorized representative of ARCO.

We are overseeing this site under the designated authority of the Regional Water Quality Control Board, and this letter constitutes a formal request for technical reports, per Sec. 13267(b) of the California Water Code. Failure to respond in a timely manner could result in civil liabilities under the Water Code of up to \$1,000 per day. Other violations of California law may also be cited.

If you have any questions about this letter, please contact the undersigned at 271-4320.

Sincerely,

Gil Wistar

Gil Wistar

Hazardous Materials Specialist

cc: Steve Bittman, Applied Geosystems (3315 Almaden Expy., Suite. 34,
San Jose, CA 95118)
Howard Hatayama, DOHS
Danielle Stefani, Livermore Fire Dept.
Lester Feldman, San Francisco Bay RWQCB
Rafat Shahid, Asst. Agency Director, Environmental Health
Mark Thomson, Alameda County District Attorney's Office
files

fr

P 062 127 771

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to ARCO Products	
Street and No. P.O. Box 5811	
P.O. State and ZIP Code San Mateo, CA 94402	
Postage	5
Certified Fee	
Special Delivery Fee	
Registered Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date and Address of Delivery	
TOTAL Postage and Fees	5
Postmark or Date 3/22/91	

PS Form 3800 4/79 11500

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



Certified Mailer # P 062 127 771

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

March 22, 1991

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CALIFORNIA REGIONAL WATER
MAR 26 1991
QUALITY CONTROL BOARD

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ARCO Products Co.
P.O. Box 5811
San Mateo, CA 94402

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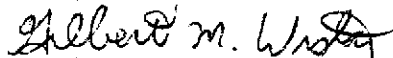
Mr. Kyle Christie
March 22, 1991
Page 2 of 2

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Danielle Stefani, Livermore Fire Dept.
~~Ester Feldman~~, San Francisco Bay RWQCB
Rafat Shahid, Asst. Agency Director, Environmental Health
Mark Thomson, Alameda County District Attorney's Office
files





TRANSMITTAL

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

TO: ALAMEDA COUNTY HEALTH CARE AGENCY
HAZARDOUS MATERIALS PROGRAM
80 SWAN WAY
ROOM 200
OAKLAND, CA 94621

DATE: 1/10/91
 PROJECT NUMBER: 60000-3
 SUBJECT: CHECK FOR REGULATORY FEES

FROM: STEVE BITTMAN
 TITLE: ASST. PROJECT GEOLOGIST

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Reports Specifications
 Letters Change Orders CHECK

COPIES	DATED	NO.	DESCRIPTION

THESE ARE TRANSMITTED as checked below:

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

REMARKS: CHECK FOR REGULATORY FEES (FOR ARGO STATION 771, LOCATED AT
899 RINCON AVENUE, LIVERMORE, CA.

Copies: 1 to AGS project file no. 60000-3 READER'S FILE

*Revision Date: 10/15/90
 *File Name: TRANSMT.PRJ

HAZARDOUS MATERIALS

Site Brief for UNDERGROUND TANKS
for the City of Alameda

ALAMEDA COUNTY

as of 12/28/90

pg 1

UTID/ Status BillID	Name of Site	Site Address	#Tanks	PERMITS:
-0- T61043	C Arco Station #02112	1260 Park St. Alameda, CA 94501	5	I:09/06/88 F:-0-
784 T61043	C Arco Station #02035	1001 San Pablo Ave. Albany, CA 94706	4	I:09/06/88 F:-0-
658 T61043	C Arco Station #04977 AM/PM	2770 Castro Valley Blvd. Castro Valley, CA 94546	3	I:09/06/88 F:07/05/88
-0- T61043	C Arco Station #02152	22141 Center St. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
*1053 T61043	C Arco Station #06041	7249 Village Pkwy. Dublin, CA 94568	4	I:09/06/88 F:-0-
*813 T10115	C Arco K&V Gas Foodmart	6211 San Pablo Ave. Emeryville, CA 94608	3	I:-0- F:-0-
I * T61043	C Arco Station #05387	20200 Hesperian Blvd. Hayward, CA 94541	4	I:09/06/88 F:-0-
*0- T21120	C Airport Arco	20450 Hesperian Blvd. Hayward, CA 94541	3	I:02/03/89 F:-0-
* 2112 T42311	C Springtown Arco	909 Bluebell Dr. Livermore, CA 94550	3	I:-0- F:-0-
-0- T61043	C Arco Station #00771	899 Rincon Ave. Livermore, CA 94550	5	I:09/06/88 F:-0-
198 T61026	R Wong's Arco	2032 E. - 12th St. Oakland, CA 94606	0	I:-0- F:-0-
*-0- T61043	C Arco Station #02185	9800 E. - 14th St. Oakland, CA 94603	4	I:09/06/88 F:-0-
1130 TA1036	C Freeway Arco	2740 - 98th Ave. Oakland, CA 94605	4	I:10/13/87 F:-0-
-0- T61043	C Arco Station #02169	889 W. Grand Ave. Oakland, CA 94607	5	I:09/06/88 F:-0-
*-0- -0-	R Gin's Arco Service	706 Harrison St. Oakland, CA 94612	0	I:-0- F:-0-
-0- T61043	C Arco Station #04494	566 Hegenberger Rd. Oakland, CA 94621	3	I:02/05/88 F:-0-
*1038 T21043	C High St. Arco	2951 High St. Oakland, CA 94619	5	I:02/05/88 F:-0-
-0- T61043	C Arco Station #04931	731 W. MacArthur Blvd. Oakland, CA 94609	4	I:09/06/88 F:-0-
-0- T61043	C Arco Station #00276	10600 MacArthur Blvd. Oakland, CA 94605	3	I:09/06/88 F:-0-
851 T41043	C Mountain Blvd. Arco	2844 Mountain Blvd. Oakland, CA 94602	4	I:04/14/88 F:-0-
-0- T61043	C Arco Station #02107	3310 Park Blvd. Oakland, CA 94610	3	I:09/06/88 F:-0-
-0- T61043	C Arco Station #06002	6235 Seminary Ave. Oakland, CA 94605	4	I:09/06/88 F:-0-
-0- T61043	C Arco Station #06148	5131 Shattuck Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
-0- T61043	C Arco Station #00374	6407 Telegraph Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
? -0- -0-	F Freedom Arco	15101 Freedom Ave. San Leandro, CA 94578	3	I:-0- F:-0-
1794 T81053	C Tharco	2222 Grant Ave. San Lorenzo, CA 94580	1	I:08/16/88 F:-0-
779 T61043	C Arco Station #00608	17601 Hesperian Blvd. San Lorenzo, CA 94580	4	I:09/06/88 F:-0-

Site Brief for A B - 2 1 8 5
for the city of Alameda

printed: 12/28/90
page: 1

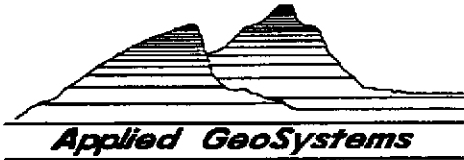
ABID/BillID	Name of Site	Site Address	Zip	SysEntry	S
/L71107	Arco Station #02112	1260 Park St.	501	10/24/90	C
/L91227	Arco Station #02035	1001 San Pablo Ave.	706	08/14/89	C
658/HL7111	Arco Station #04977	2770 Castro Valley Blvd.	546	08/14/89	C
/HL7112	Arco Station #02152	22141 Center St.	546	08/14/89	C
1053/HL7114	Arco Station #06041	7249 Village Pkwy.	568	06/04/90	C
/LC1217	Arco Station #05387	20200 Hesperian Blvd.	541	06/04/90	C
/L22223	Airport Arco	20450 Hesperian Blvd.	541	08/01/89	C
/	Springtown Arco	909 Bluebell St.	550		P
/L41112	Arco Station #00771	899 Rincon Ave.	550	07/28/89	C
/L81123	Arco Station #02185	9800 E. - 14th St.	603	08/14/89	C
1130/L91386	Freeway Arco	2740 - 98th Ave.	608	09/18/89	C
/L81146	Arco Station #02169	889 W. Grand Ave.	607	08/14/89	C
/L81176	Arco Station #04494	566 Hegenberger Rd.	621	08/14/89	C
1038/	High St. Arco	2951 High St.	619	03/21/89	P
/L81178	Arco Station #04931	731 W. MacArthur Blvd.	609	06/04/90	C
/L81128	Arco Station #00276	10600 MacArthur Blvd.	605	11/20/89	C
851/L12017	Mountain Blvd. Arco Servi	2844 Mountain Blvd.	602	11/30/90	M
/L81188	Arco Station #02107	3310 Park Blvd.	610	08/14/89	C
/L81295	Sunshine Petroleum, Inc.	6211 San Pablo Ave.	608	12/28/90	M
/HL8112	Arco Station #06002	6235 Seminary Ave.	605	08/31/90	C
/L81130	Arco Station #06148	5131 Shattuck Ave.	609	06/04/90	C
/L81179	Arco Station #00374	6407 Telegraph Ave.	609	08/14/89	C
744/HL7116	Arco Station #02111	1156 Davis St.	577	08/14/89	C
/HL7118	Arco Station #00601	712 Lewelling Blvd.	579	08/14/89	C
1794/LA1469	Tharce	2322 Grand Ave.	580	07/28/89	C
779/HL7119	Arco Station #00608	17601 Hesperian Blvd.	580	08/14/89	C

Arco Stati

Report Total : 26

Status Codes: C=Current/Part2 M=Current/Part1 P=awaiting busPla
B=ready for Billing A=ready for Billing I=Inactive

*6211 San Pablo Ave
No 467 MP.*



TRANSMITTAL

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

TO: MR. GIL WISTAR
ALAMEDA COUNTY DEPARTMENT OF
ENVIRONMENTAL HEALTH
80 SWAN WAY ROOM 200
OAKLAND, CA 94621

DATE: 11/20/90
 PROJECT NUMBER: 60000-3
 SUBJECT: CHECK #101, REVIEW FEES FOR
ARCO 771

FROM: STEVE BITTMAN
 TITLE: ASST. PROJECT GEOLOGIST

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

COPIES	DATED	NO.	DESCRIPTION

THESE ARE TRANSMITTED as checked below:

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

REMARKS: ENCLOSED PLEASE FIND A CHECK FOR THE AMOUNT OF \$500
FOR REVIEW FEES ON ARCO 771.

Copies: 1 to AGS project file no. 60000-3 NOV 26 11 11 AM '90 SJ READER'S FILE

*Revision Date: 10/15/90
 *File Name: TRANSMT.PRJ

ALAMEDA COUNTY, DEPARTMENT OF
ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

ARCO # 771

II, III

white -env.health
yellow -facility
pink -files

Site ID # - Site Name Arco Minimum Today's Date 2/22/90

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

Site Address 899 Pincon Ave.

City Livermore Zip 94550 Phone _____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(a)
- 17. Certification 25534(d)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

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

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose Semi-annual groundwater One time soils
 - 3) Daily Vadose One time soils Annual tank test
 - 4) Monthly Gndwater One time soils
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/gndwater mon.
 - 6) Daily Inventory Annual tank testing Cont pipe leak det
 - 7) Weekly Tank Gauge Annual tank testing
 - 8) Annual Tank Testing Daily Inventory
 - 9) Other _____

- 7. Precip Tank Test Date: 2643
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit Date: 2711
 - 14. As Built Date: 2635

Comments:

Soil borings were done at the site by Arco within the past month as a "routine check" for soil contamination. One of the borings punctured the single-wall fiberglass regular tank, on the top. Apparently, no gas leaked out, since tank was not full. The tank manufacturer, Xerxes, sent a representative to patch the tank, which has been completed. A precision test of all tanks is being accomplished now.

needs:

- ① Records of daily inventory reconciliation must be kept on facility premises at all times. These records should document the past 3 years of monitoring.
- ② Our office must be sent copies of soil boring and sampling results as soon as they are available.

Rev 6/88

Contact: Jerry Shields
Title: _____
Signature: _____

Inspector: _____
Signature: Gilbert M. Winter

II, III

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

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.	
REPORT DATE 0_M 2_d 0_d 5_d 9_y 0_v		CASE #		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Alice Scheufler		PHONE (408) 984-6536		SIGNATURE As agent for ARCO <i>Alice Scheufler</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME Pacific Environmental Group, Inc.		
ADDRESS 1601 Civic Center Drive, Suite 202 Santa Clara, CA 95050					
RESPONSIBLE PARTY	NAME ARCO Petroleum Products <input type="checkbox"/> UNKNOWN		CONTACT PERSON Elain Lavine		PHONE (415) 571-2482
	ADDRESS P.O. Box 5811 San Mateo, CA 94402				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Service Station No. 771		OPERATOR Jerry Shields		PHONE (415) 447-1329
	ADDRESS 899 Rincon Avenue Pine		Livermore Alameda 94550		
		TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> OTHER		TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER	
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Public Health Service		CONTACT PERSON Mr. Ed Howell		PHONE (415) 271-4320
	REGIONAL BOARD San Francisco Bay Region		Mr. Don Dalke		PHONE (415) 464-0503
SUBSTANCES INVOLVED	(1) NAME Gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2)		<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 0_M 2_d 0_d 2_d 9_y 0_v		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER see below		<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN ____M ____d ____y ____v <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> OTHER		
HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 0_M 2_d 0_d 2_d 9_y 0_v					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		TANKS ONLY/CAPACITY ____ GAL AGE ____ YRS <input type="checkbox"/> UNKNOWN		MATERIAL <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> STEEL <input type="checkbox"/> OTHER
					CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER
CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES				
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> OTHER (OT)				
COMMENTS	While drilling routine borings for a pre-tank pull (replacement) product was found in soil. All tanks are being replaced and contaminated soil removed. RWQCB and OES contacted (OES will call EPA, County Health, RWQCB and air quality)				

FILE OR
PER NO.

Remediation
Removal

ENVELOPE
No. of

OWNER *Acco Am 1PM*

Address *899 LINCOLN AVE.*

LIVERMORE Phone

Contractor *Applied Geo Systems*

Address *3315 Almaden Expressway Ste 31*

San Jose 95118 Phone *408-264-2435*

OTHER (Specify)

Address

Phone

CONTACT FOR INVESTIGATION

PLAN REVIEW

\$ *500* Rec'd. *msc 11/27/90*

No. Plans Rec'd.

Plans Approved

Layout Made

Rejected

Applicant Notified

Plans Returned

Permit Issued

CONSTRUCTION PROGRESS ACCEPTANCE

Pre-Plaster/drywall

Pre-Final

Final

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

POOL

EXCAVATION

FINAL

OTHER

Pre-Concrete/Gunite

Pre-Plaster

Final

Septic Tank

Absorption Field

Absorption Bed

House Sewer

Septic Tank

Absorption Field

Absorption Bed

U.G. TANKS

Pre-Covering

Final

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

By Date

XR

REMARKS

LOCATION

Date	By	REMARKS	Date	By	REMARKS
12/27/90		Review file			of the 3 wells show either a sheen or floating product. Plume of contamination not defined.
3/21/91	gms	Further review of file; prepare letter to ARCO regarding submittal of well installation report and schedule for further work. When will ARCO pull tanks?	5/7		Review tank closure plan - incomplete - needs analytical info.
		tank test results - all tanks less than 0.05 gph. had one tank at 0.018 gph. water under the tank.	5/30	GW	Review work plan that calls for more MWs. Prepare letter approving this plan. Question: which happen first, addition well installation or tanks removal?
4/1/91		Review Applied Geosystems report on monitoring well installation - GW in all monitoring wells has been affected; 2			

Vicinity Map

592426
5/1/91
\$1,074

577149
Nov. 30, 90
500⁰⁰

QUARTERLY SUMMARY REPORT
Alameda County
July 1989

07/14/89

01

01-0121

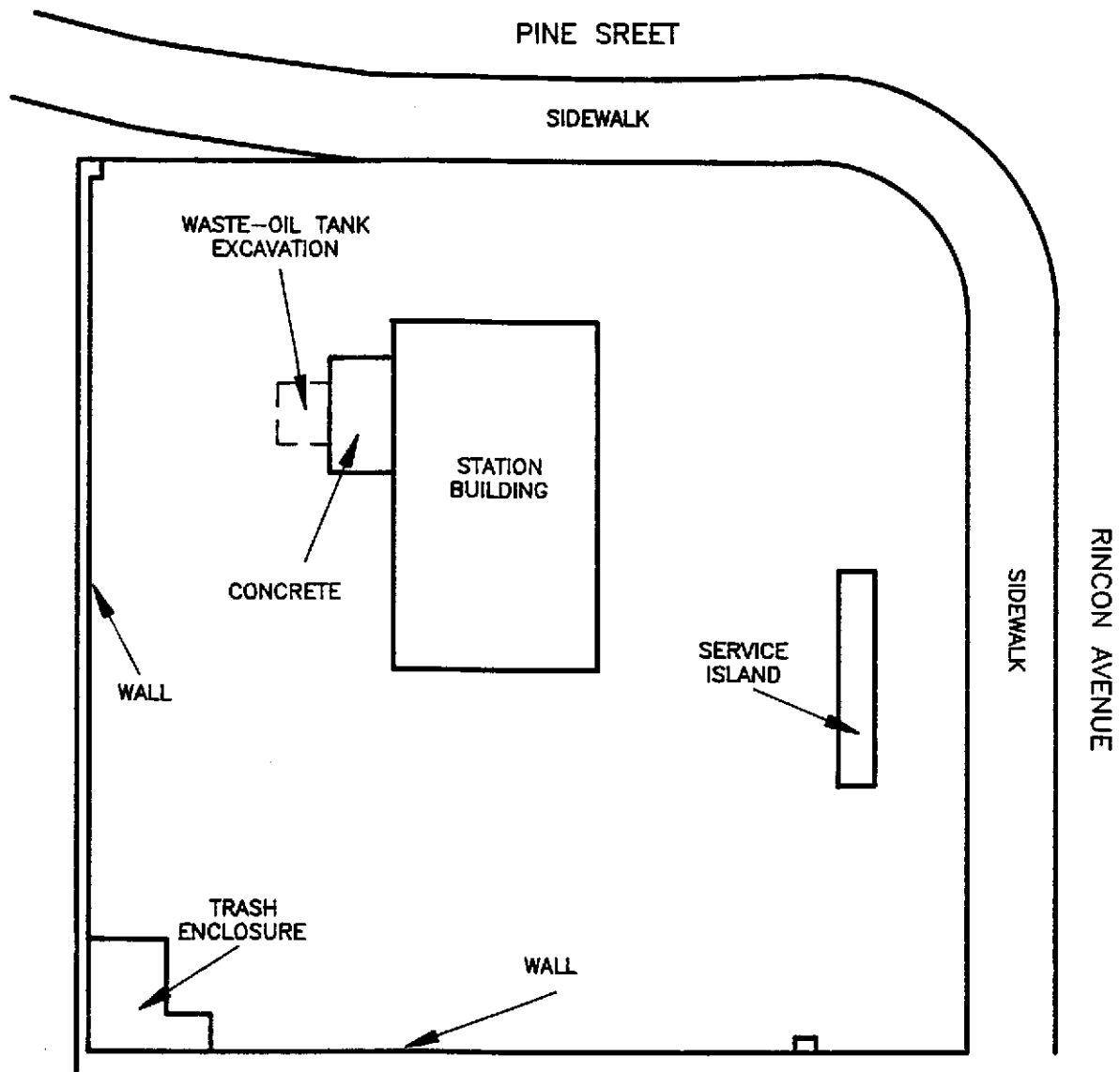
PP → 4

①

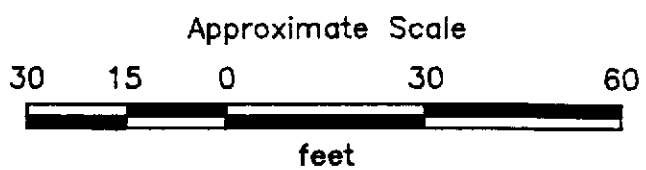
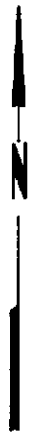
ARCO Service Station No. 771
899 Rincon Avenue/Pine Street
Livermore, California

Brief History

- August 25, 1987, the waste-oil tank (Plate P-1) was removed from the site by Crosby and Overton Environmental Management, Inc. The waste-oil tank pit was excavated to a depth of 10 feet and a soil sample collected by Brown and Caldwell for laboratory analysis. Results of analyses indicated total petroleum fuel hydrocarbon levels of 378 ppm. Solvents, BTX, and PCB's were not detected.
- September 1, 1987, the waste-oil tank pit was further excavated and Brown and Caldwell collected a soil sample from a depth of 12 feet. Petroleum fuel hydrocarbons were not detected in the sample.
- October 19, 1987, waste-oil contaminated soil was transported to a Class I landfill in Casmaria, California.
- ARCO plans no further work at the site at this time.



Source: Based on ARCO site plan dated 1980



PROJECT NO. 19011-1

GENERALIZED SITE PLAN
ARCO Station No. 771
899 Rincon Avenue
Livermore, California

PLATE
P - 1

4/24/89

01

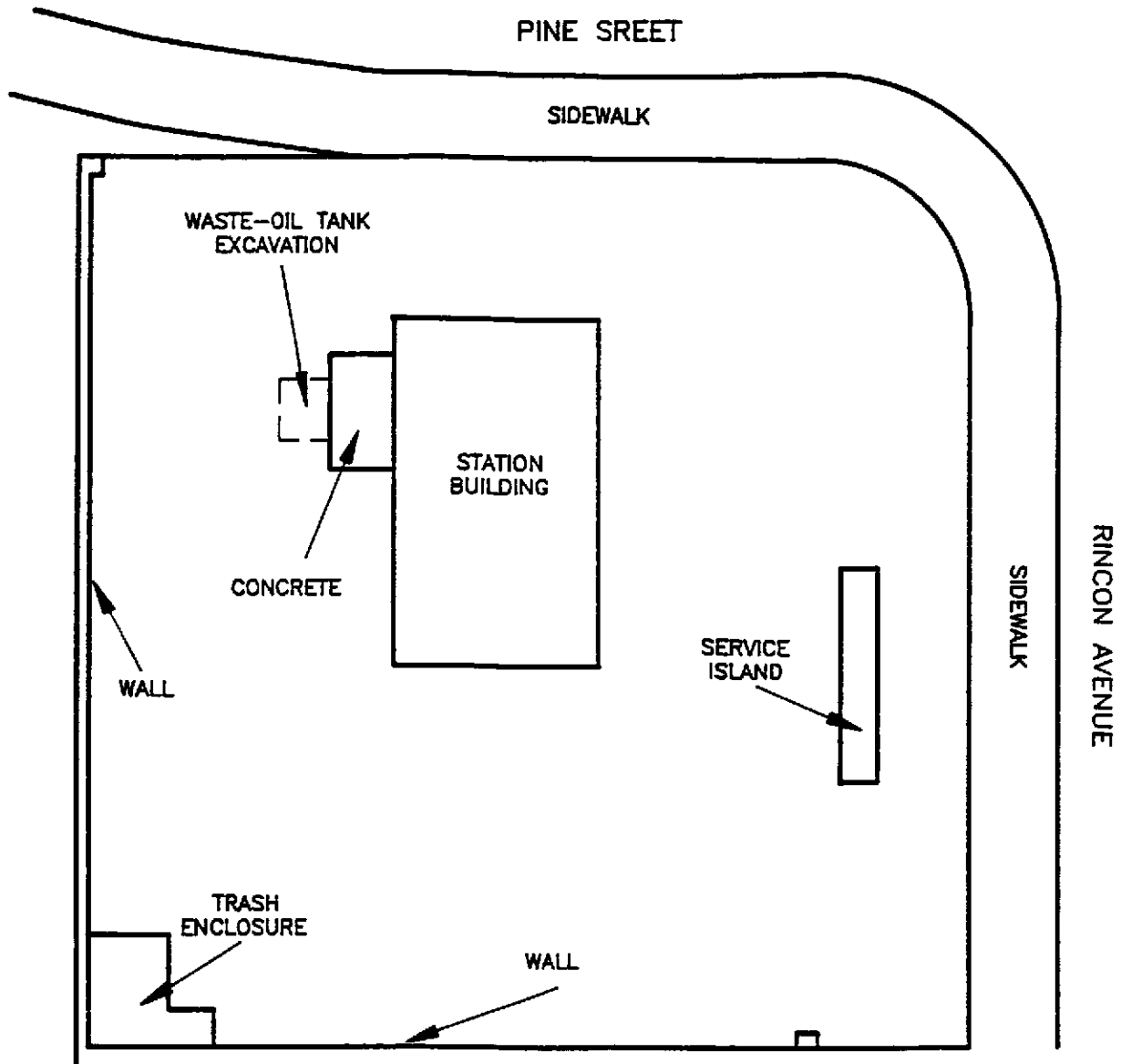
NC

QUARTERLY SUMMARY REPORT
Alameda County
April 1989

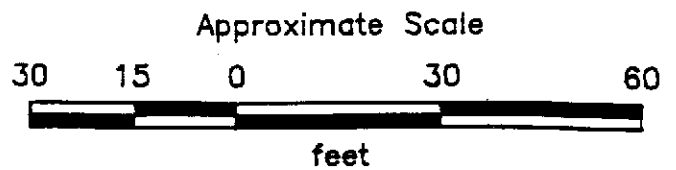
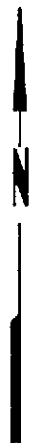
ARCO Service Station No. 771
899 Rincon Avenue/Pine Street
Livermore, California

BRIEF HISTORY

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Source: Based on ARCO site plan dated 1980



GENERALIZED SITE PLAN
ARCO Station No. 771
899 Rincon Avenue
Livermore, California

PLATE
P - 1

PROJECT NO. 19011-1

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION REPORT

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 04 1987
 1987

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO STATE TANK ID # C968355
 REPORT DATE LOCAL CASE # REGIONAL BOARD CASE # US EPA ID #

REPORTED BY NAME OF INDIVIDUAL FILING REPORT Hank Sheetz PHONE (415) 484-1304 SIGNATURE
 REPRESENTING LOCAL AGENCY OTHER OWNER/OPERATOR REGIONAL BOARD COMPANY OR AGENCY NAME ARCO Petroleum Products Co.
 ADDRESS 4895 Woodthrash Rd. Pleasanton CA 94566

RESPONSIBLE PARTY NAME ARCO Petroleum Products UNKNOWN CONTACT PERSON Hank Sheetz PHONE (415) 484 1304
 ADDRESS 2000 Alameda de las Pulgas San Mateo CA 94403

LOCATION FACILITY NAME (IF APPLICABLE) ARCO Station 771 OPERATOR Regina Temp Opr 771 PHONE (415) 373-9693
 ADDRESS 899 Rincon Avenue, Livermore Alameda 94550

CROSS STREET Pine Street TYPE OF AREA COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL OTHER TYPE OF BUSINESS RETAIL FUEL STATION UNKNOWN OTHER

IMPLEMENTING AGENCIES LOCAL AGENCY Livermore Fire Department AGENCY NAME CONTACT PERSON Sue Montgomery PHONE (415) 447-2232
 REGIONAL BOARD TSCD

SUBSTANCES INVOLVED CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME QUANTITY LOST (GALLONS)
 (1) waste oil UNKNOWN
 (2) UNKNOWN

DISCOVERY/ABATEMENT DATE DISCOVERED 08 M 25 D 87 Y HOW DISCOVERED INVENTORY CONTROL SUBSURFACE MONITORING ROUTINE MONITORING TANK REMOVAL NUISANCE CONDITIONS OTHER:
 DATE DISCHARGE BEGAN UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) REMOVE CONTENTS REPLACE TANK CLOSE TANK
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE 08 M 25 D 87 Y REPAIR TANK REPAIR PIPING CHANGE PROCEDURES OTHER remove soil around tank

SOURCE/CAUSE SOURCE(S) OF DISCHARGE TANK LEAK UNKNOWN PIPING LEAK OTHER (SPECIFY) TANKS ONLY/CAPACITY 240 GAL CAUSE(S) OVERFILL CORROSION
 AGE YRS. UNKNOWN MATERIAL STEEL FIBERGLASS OTHER RUPTURE/FAILURE SPILL UNKNOWN OTHER

RESOURCES AFFECTED/AT RISK RESOURCES AFFECTED YES NO THREATENED UNKNOWN WATER SUPPLIES AFFECTED YES NO THREATENED UNKNOWN # OF WELLS
 AIR (VAPOR) PUBLIC DRINKING WATER _____
 SOIL (VADOSE ZONE) PRIVATE DRINKING WATER _____
 GROUNDWATER INDUSTRIAL _____
 SURFACE WATER OR STORM DRAIN AGRICULTURAL _____
 BUILDING OR UTILITY VAULT OTHER (SPECIFY) _____
 OTHER (SPECIFY) _____

GROUNDWATER BASIN NAME Livermore Valley UNKNOWN

COMMENTS: B3 652 11/15/87

INSTRUCTIONS

-2-

GENERAL

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

In space provided, enter state tank ID number if known. State ID numbers have been assigned to all tanks that are on file with the State Water Resources Control Board. Enter today's date in the box titled "Report Date". Enter Local and Regional Water Quality Control Board case numbers if known. Enter the US EPA facility number if applicable.

2. REPORTED BY

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

3. RESPONSIBLE PARTY

Enter the name, telephone number, contact person, and address of the party responsible for the leak, or mark unknown. For tank leaks, the responsible party would normally be the tank owner.

4. SITE LOCATION

Enter information regarding the tank facility and surrounding area. If a known tank or facility is not involved, enter general location of the contamination site as best possible; i.e., street, city, county, zip, cross street, and type of area.

5. IMPLEMENTING AGENCIES

Enter names of the local agency, Regional Board and/or Toxic Substances Control Division (TSCD) regional office involved and a contact person and telephone number for each.

6. SUBSTANCES INVOLVED

Enter the CAS number(s) (if known), name(s), and quantities lost of all hazardous substances involved. Attach an extra sheet if more than two substances are involved. Be as specific as possible.

7. DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the discharge. More than one box may be checked in the sections titled "How Discovered" and "Method Used To Stop Discharge" if appropriate.

8. SOURCE/CAUSE

Indicate source(s) of discharge. Provide details on tank age; capacity and material if a tank is involved. Check box(es) indicating cause of discharge. More than one box may be checked if appropriate.

9. RESOURCES AFFECTED/AT RISK

In section titled "RESOURCES AFFECTED" indicate whether any of the resources listed have been affected ("YES"), will not be affected ("NO"), or may be affected ("THREATENED") by the release. Check "UNKNOWN" if unsure of the status of a resource. Specify any unlisted resources which are, or may be, involved under "OTHER". The same instructions apply to the section titled "WATER SUPPLIES AFFECTED." Give the number of water wells affected or threatened, if known. Provide the name of the ground-water basin underlying the site, if known, in the space provided.

10. COMMENTS

Use this space to elaborate on any aspects of the incident. Comments on cleanup work or planning or related investigations should be reported on a separate Cleanup Tracking Report.

11. SIGNATURE

Sign the form in the space provided.

DISTRIBUTION

Hand deliver or mail copies of the form as follows:

- | | |
|--|--|
| 1) Original - Local Agency | 3) Regional Water Quality Control Board |
| 2) State Water Resources Control Board
Division of Water Quality
Underground Tank Program
P. O. Box 100
Sacramento, CA 95801 | 4) Toxic Substances Control Division
Underground Tank Program
714/744 P Street
Sacramento, CA 95814 |
| | 5) Owner/responsible party |