ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Alameda County CC458
Environmental Protection Services
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577

STID 3943

June 20, 1996

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

RE: ARCO SERVICE STATION #2152, 22141 CENTER STREET, CASTRO VALLEY

Dear Mr. Whelan:

The Alameda County Environmental Health Department, Environmental Protection Division, has received concurrence from the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), for final closure of the underground storage tank investigation at the referenced site.

Prior to the issuance of a "Remedial Action Completion Certificate" by this office, however, the monitoring wells located at this site must be properly destroyed should you have no further use for them. Well destruction is performed under permit issued by Zone 7 - Alameda County Flood Control and Water Conservation District.

Please advise me if the wells will be destroyed, and when well destruction has been completed, as appropriate. I may be reached 510/567-6783.

Sincerely,

Softy O. Seery, CHMM

Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Agency Director

Kevin Graves, RWQCB Craig Mayfield, Zone 7

Jim Ferdinand, Alameda County Fire Department Robert Bogni, P.O. Box 14258, Fremont, CA 94539



March 28, 1996 Project 330-048.6A

Mr. Robert E. Cave
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109

Re: Permit to Operate - Plant 7413
ARCO Service Station 2152
22141 Center Street
Castro Valley, California

Dear Mr. Cave:

On behalf of ARCO Products Company, Pacific Environmental Group, Inc. (PACIFIC) has been performing environmental services at the site referenced above. PACIFIC will not be renewing the Permit to Operate, which expires on April 1, 1996, as remediation has been completed at this site. The system was shut down on February 8, 1994, and has not operated since. The soil vapor extraction and treatment system has been dismantled and removed from the site.

If you have any further questions or require additional information, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Suzanne McClurkin-Nelson

Staff Scientist

: Mr. Michael Whelan, ARCO Products Company

Mr. Scott Seery, Alameda County Health Care Service Agency

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

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:	MICHAEL WHELAND	• *
TO:	MICHAEL WHELAND	
	ARCO	
	FAX # (<u>408)</u> 317-836/	
Total numb	per of pages including cover sheet _	2
FROM:	SUSAN HUGO	
OTE: Per ye	ur request.	
		
	· · · · · · · · · · · · · · · · · · ·	

(SMILE) have a nice day.

DO SOMETHING FOR OUR ENVIRONMENT.

jdsb/0395

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

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



July 13, 1995 Project 330-048.6A

Mr. Scott Seary Alameda County Health Care Services Agency Division of Hazardous Materials 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502

Re: Discontinuation of Groundwater Sampling ARCO Service Station 2152 22141 Center Street Castro Valley, California

Dear Mr. Seary:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company (ARCO), notifies the Alameda County Health Care Services Agency (ACHCSA) that groundwater monitoring and sampling performed at the site referenced above will be discontinued.

Groundwater analytical data collected from site groundwater monitoring wells indicate that total petroleum hydrocarbons calculated as gasoline (TPH-g) and benzene have been below the detection limits since July 1991. The only exception was on February 27 and May 26, 1995.

• In February 1995, TPH-g and benzene were detected only in Well MW-2 at 210 and 4 parts per billion (ppb), respectively. TPH-g and benzene in Wells MW-1, MW-3, and MW-4 were below the detection limits. Analytical results from verification sampling performed at Well MW-2 on March 23, 1995 indicated that TPH-g and benzene were below the detection limits. The February 1995 results are considered anomalous and were due to either a sampling or laboratory error. In addition, groundwater sampling performed on May 26, 1995 indicate that groundwater from Well MW-2 was below

the detection limits for TPH-g and benzene. Therefore, providing additional verification that the February 1995 results were anomalous.

• In May 1995, benzene was detected only in Well MW-3 at just above the detection limit at 0.75 ppb; TPH-g was below the detection limit. TPH-g and benzene in Wells MW-1, MW-2, and MW-4 were below the detection limits.

Therefore, based on these results, groundwater monitoring and sampling performed at site wells will be discontinued beginning with the third quarter 1995.

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

Sincerely,

Pacific Environmental Group, Inc.

Kelly C 3ron

Kelly C. Brown

Project Manager

cc: Mr. Michael Whelan, ARCO Products Company

Mr. Kevin Graves, Regional Water Quality Control Board

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:	Uune 27, 1995
TO:	DAVID LARSON.
Total num	FAX # (408) 453-0452 ber of pages including cover sheet 2
	Susan L. Hugo
NOTE: LIST	of ARCO SITES & corresponding act person

(SMILE) have a nice day.

DO SOMETHING FOR OUR ENVIRONMENT.

(6/27/95) LIST OF ARCO SITES WITH UGT CLEANUP

STID#	ACHD CONTACT	ARCO FACILITY#	ADDRE	<u>ISS</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



ENVIOLUTE AL

95 MAY 24 PH 1: 18

May 22, 1995 Project 330-048.6A

Ms. Beth Farmer Bay Area Air Quality Management District 939 Ellis Street San Francisco, California 94109

Re: Permit to Operate - Plant 7413 ARCO Service Station 2152 22141 Center Street Castro Valley, California

Dear Ms. Farmer:

On behalf of ARCO Products Company, Pacific Environmental Group, Inc. (PACIFIC) has been performing environmental services at the site referenced above. PACIFIC will not be renewing the Permit to Operate, as remediation has been completed at this site. The system was shut down on February 8, 1994, and has not operated since. The soil vapor extraction and treatment system has been dismantled and removed from the site.

If you have any further questions or require additional information, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Suzanne McClurkin-Nelson

Staff Scientist

Shaw Garakani Project Engineer

Mr. Michael Whelan, ARCO Products Company

Mr. Scott Seery, Alameda County Health Care Service Agency

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

AGENCY DAVID J. KEARS, Agency Director

RAFAT A. SHAHID. Assistant Agency Director

STID 3943

Alameda County CC4580 Environmental Protection Division 1131 Harbor Bay Parkway, Room 250 Alameda CA 94502-6577

April 18, 1995

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

ARCO SERVICE STATION #2152, 22141 CENTER STREET, CASTRO RE: VALLEY

Dear Mr. Whelan:

I am in receipt of the April 11, 1995 addendum to the February 7, 1995 Pacific Environmental Group, Inc. (PEG) work plan for the assessment of soil conditions in proximity to the tank complex and former vapor recovery sump. The referenced addendum modifies one of the two borings originally proposed from a vertical orientation, to a slant boring.

The cited work plan, as amended, has been accepted. contact this office once field activities have been scheduled. I may be reached at 510/567-6783.

Sincerely,

geery, CHMM

Senior Hazardous Materials Specialist

Rafat A. Shahid, Agency Director CC:

Gil Jensen, Alameda County District Attorney's Office

Kevin Graves, RWQCB

Don Atkinson-Adams, ACDEH

Kelly C. Brown, Pacific Environmental Group, Inc.



PROTICTION 2:31

April 11, 1995 Project 330-048.6A

Mr. Scott Seary Alameda County Health Care Services Agency Division of Hazardous Materials 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502

Re: Work Plan Modification ARCO Service Station 2152 22141 Center Street Castro Valley, California

Dear Mr. Seary:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company (ARCO), presents notification of a change in scope of work regarding PACIFIC's Work Plan dated February 7, 1995. The original scope of work outlined in PACIFIC's February 7, 1995 Work Plan proposed the drilling of two soil borings (B-21 and B-22) adjacent the former underground product line vapor recovery sump (SUMP). During field reconnaissance by a PACIFIC geologist, it was determined that the boring (B-21), proposed to be drilled between Well MW-1 and the SUMP, could not be drilled vertically, due to underground product lines in this area and the close proximity of the underground storage tanks (USTs). Only Boring B-22 can be drilled in the proposed location in the conductor casing within the UST complex. Therefore, PACIFIC requests that the February 7, 1995 Work Plan be modified as follows:

Boring B-21 will be drilled as an angle boring. Boring B-21 will be drilled at an angle of approximately 55 degrees from horizontal. Soil samples will be collected at 25, 30, 35, 40, 45, and 50 feet along the line of drilling. A schematic showing the drilling angle and soil sample locations is shown on Figure 1.

As originally proposed in PACIFIC's February 7, 1995 Work Plan, Boring B-22 will be drilled in the conductor casing within the UST complex and soil samples will be collected

at five foot depth intervals beginning at 15 feet below ground surface. All soil samples collected will be submitted for laboratory analysis.

Please review this Work Plan Modification and issue a letter of approval referencing both this letter and the February 7, 1995 Work Plan. If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

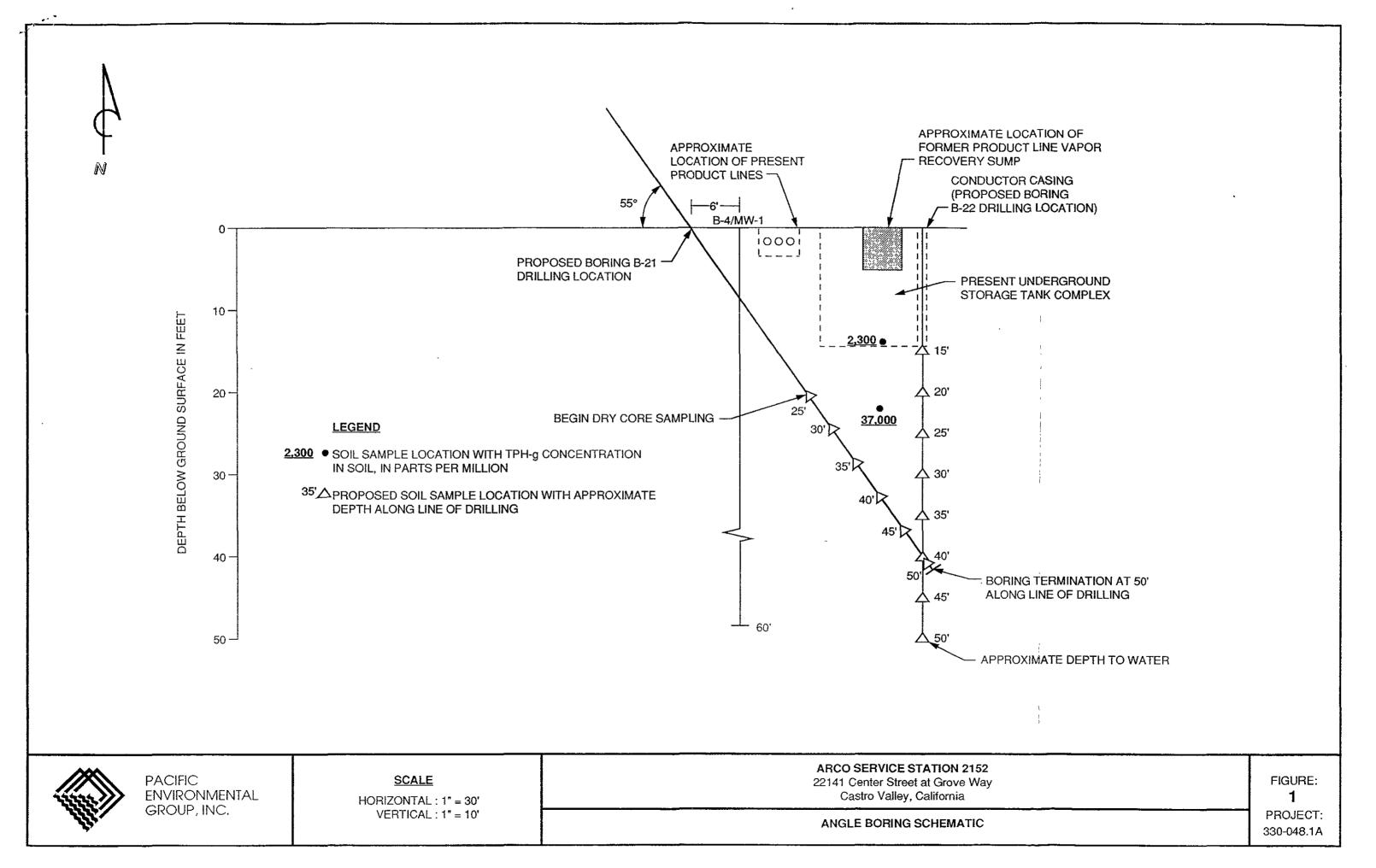
Kelly C. Brown

Project Manager

Attachments: Figure 1 - Angel Boring Schematic

cc: Mr. Michael Whelan, ARCO Products Company

Mr. Kevin Graves, Regional Water Quality Control Board



DAVID J. KEARS, Agency Director

AGENCY

RAFAT A. SHAHID, Assistant Agency Director

Alameda County CC4580 Environmental Protection Division 1131 Harbor Bay Parkway, Room 250 Alameda CA 94502-6577

STID 3943

February 9, 1995

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

RE: ARCO SERVICE STATION #2152, 22141 CENTER STREET, CASTRO

VALLEY

Dear Mr. Whelan:

I am in receipt of the February 7, 1995 Pacific Environmental Group, Inc. (PEG) correspondence presenting both a summary of our meeting of February 2, 1995, and a brief work plan for the assessment of soil conditions in proximity to the tank complex and former vapor recovery sump.

The cited work plan has been accepted as submitted. Please contact this office once field activities have been scheduled, and when ARCO has become aware of their final occupancy status at the site. I may be reached at 510/567-6783.

Sincerely

sett O. segry, CHMM

Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Agency Director

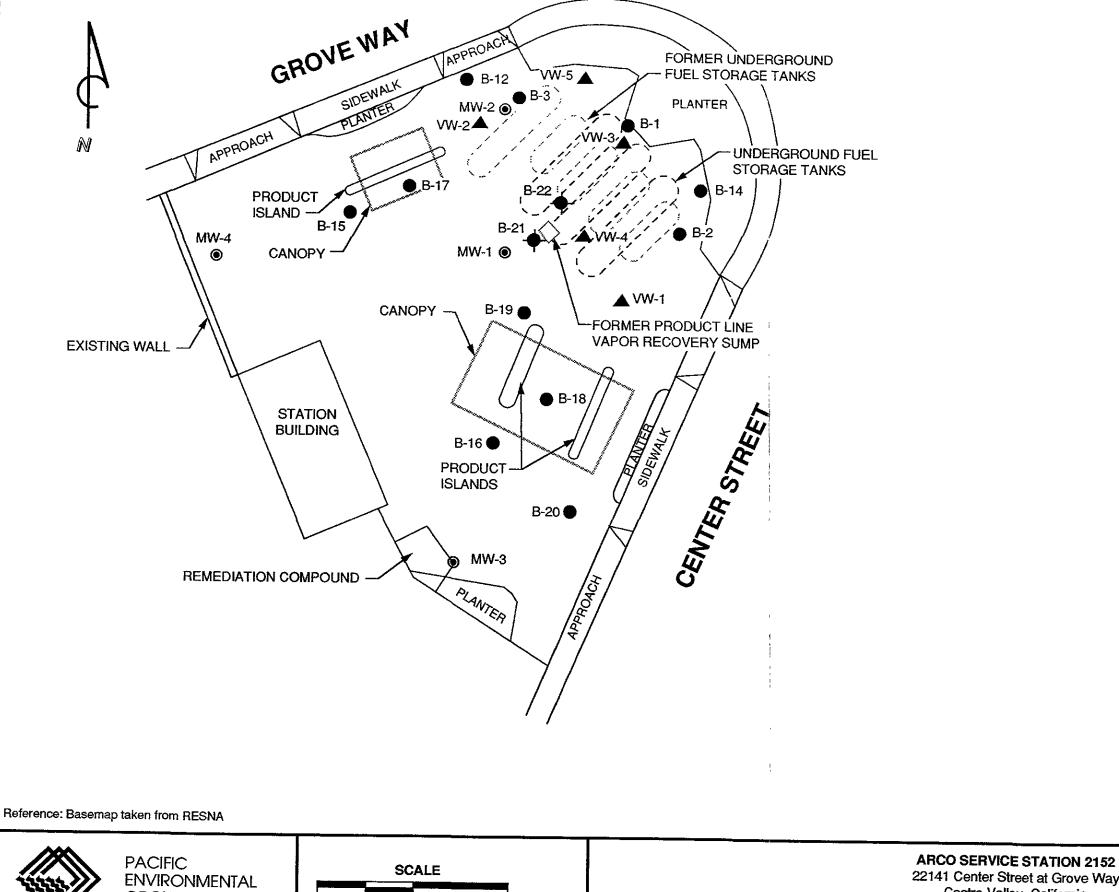
Gil Jensen, Alameda County District Attorney's Office

Kevin Graves, RWQCB

Don Atkinson-Adams, ACDEH

Kelly C. Brown, Pacific Environmental Group, Inc.

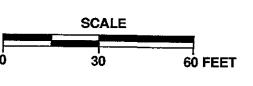
Post-It™ brand fax transmittal	memo 7671 # of pages > (
To Kelly Brown	From ScousceRY
co. Pacific	CO. ACDEH
Dept.	Phone #510/567-6783
Fax# 408/441-7539	Fax #



LEGEND

- MW-4 @ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- VW-1 A SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- B-2 SOIL BORING LOCATION AND DESIGNATION
- B-21 PROPOSED SOIL BORING LOCATION AND DESIGNATION





22141 Center Street at Grove Way Castro Valley, California

PROPOSED SOIL BORING LOCATION MAP

FIGURE:

PROJECT: 330-048.6A

DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY, ROOM 200 CA 94621 . OAKLAND, PHONE NO. 510/271-4320

Scott SEERY

470 - 2711 Street, Thro thor

These plans have bron my wad and four t

ance of any required building or a listing or colocal health laws. Ohings to , included to One copy of these arrespondable in reaching Department are to esserve emp laws. The project proposal

aveiled's to all contractors and craftening the removal.

lestance of

UNDERGROUND TANK CLOSURE PLAN
e according to attached instructions * * * Complete according

ORCO AM/PM #2152 1. Business Name Formatel Business Owner _ 2. Site Address 2 Zip 94546 Phone DISCONNECTED city <u>CASTRO</u> PO BOX 6411

ARCO PRODUCTS CO 3. Mailing Address Zip 90702 CA Phone (310) 407-2610 /ARTÉS

Assoc BOGNI 4. Land Owner O Box 4258 City, State FREMONT, CA Zip 94539

Generator name under which tank will be manifested ARCO PRODUCTS

A.D. No. under which tank will be manifested CAL000009866

rev 3/92

6.	Contractor GETTLER-RYAN INC
٠.	1.747 SIEPPA CT SUITE S
	Address 0777 SIERRA DI OMILE City OUBLIN, CA 94568 Phone 551-7555
	city
	License Type* <u>B, A, HAZ</u> ID# <u>220793</u>
	*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.
7.	Consultant PACIFIC ENVIRONMENTAL GROUP
•	2025 GATEWAY PI SUITE 440
	City Spn Jose , CA 95110 Phone (408) 441-7500
	City
8.	Contact Person for Investigation
>	Name KELLY BROWN Title PROJECT MANAGER
	Phone (408) 441-7539
9.	. Number of tanks being closed under this plan
	Length of piping being removed under this plan Zeofv
	Total number of tanks at facility3
10	. State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground tanks are hazardous waste and must be handled **
	as nazardous wasco
	a) Product/Residual Sludge/Rinsate Transporter
	Name ERICKSON INC EPA I.D. No. CAD 009466392
	Hauler License No. OOI9 License Exp. Date 5.95
	Address 255 PAAR Blub
	City RICHMOND State CA Zip 94801
	City
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name GIBSON ENVIRONMENTAL EPA I.D. No.
	Address
	City Redwood City State CA Zip

c) Tank and Piping Transporter
Name ERICKSON INC EPA I.D. No. CAD 009466392
Hauler License No. 0019 License Exp. Date 5-95
Address 255 Parn Blvd
city Richmond State CA Zip 94801
CICY
d) Tank and Piping Disposal Site
Name Enickson Inc EPA I.D. No. CAD 009466 392
Address 255 PARR BIVD
city Richmond State CA Zip 94801
11. Experienced Sample Collector
Name
Company Pacific Environmental GROUP
Address 2025 GATEWAY PI, Suite440
City 5+ Jose State CA Zip 95110 Phone (408) 441-7500
12. Laboratory
Name SEQUOIA ANALYTICAL
Address 680 CHESAPEAKE DR
city Resumon City State CA Zip 94068
State Certification No. 1210
13. Have tanks or pipes leaked in the past? Yes [] No []
If yes, describe

14. Describe methods to be used for rendering tank inert

TRIPLE	RINSE	THEN	INSERT	30165	1000 921	capacity
DRY ICE	IN EACH	TANK		_		

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	Location and
Capacity	Use History (see instructions)	(tank contents, soil, ground- water, etc.)	
12000 GAL	UNLEADED GASOLINE	5016	2 SAMPLES @
12000 GAL	. "	5014	BACKFILL
12000 GAL	//	501	INTERPACE
	· · · ·		
	- 4		

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 Sample / Socy for disposer

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. Se attached Table 2.

	<u> </u>		
Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-G	5030 Soil/WATER	8015 /8020	1.0 ppm
BTEX		8020/8240	0.005 "
TOTAL LEAD	. AA		
·			
		<u>L</u>	

17. Submit Site Health and Safety Plan (See Instructions)

.18. Submit Worker's Compensation Certificate copy

Name of Insurer TRANSAMERICA ENS Group

- 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.

Name (please type)

Signature

Date 1-6-95

Signature of Site Owner or Operator

Name (please type)

TIMOTHY DAHL, ON BEHALF OF ARCO PRODUCTS CO.

- 6 -

Signature of Contractor

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.

Item Specific Instructions

- SITE ADDRESS
 Address at which closure is taking place.
- 5. EPA I.D. NO. under which the tanks will be manifested EPA I.D. numbers may be obtained from the State Department of Health Services, 916/324-1781.
- 6. <u>CONTRACTOR</u>
 Prime contractor for the project.
- 10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
- 15. TANK HISTORY AND SAMPLING INFORMATION

 Use History This information is essential and must be accurate.

 Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS See attached Table 2.

17. SITE HEALTH AND SAFETY PLAN A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- Page for employees to sign indicating they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

These requirements are excerpts from CFR 29 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tanks and piping in addition to the ones being pulled.

20. DEPOSIT

A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Description of sampling methods;
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Tabulation of the volume and final destination of all nonmanifested contaminated soil hauled offsite.

TABLE #2 RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

	UNDERGROUND TANK LEAKS	
HYDROCARBON LEAK	SOIL ANALYSIS	WATER ANALYSIS
Unknown Fuel	TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260
Leaded Gas	TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA	TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA
	TEL DHS-LUFT EDB DHS-AB1803	TEL DHS-LUFT EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) BTX&E 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Fuel/Heating Oil	TPH D GCFID(3550) BTX&E '8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Chlorinated Solvents	CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260	CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240	TPH G GCFID(5030) TPH D GCFID(3510 O & G 5520 C & F BTX&E 602, 624 or 8260
	CL HC 8010 or 8240	CL HC 601 or 624
	ICAP or AA TO DETECT METHOD 8270 FOR SOIL (PCB* PCP* PNA CREOSOTE	METALS: Cd, Cr, Pb, Zn, Ni OR WATER TO DETECT: PCB PCP PNA CREOSOTE

^{*} If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

- 1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
- For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
- 3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
- 4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
- 5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydro- carbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
- 6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
- 7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
- 8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. Standard Methods: 17th Edition, 1989, has changed the 503 series to 5520.
- 9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	SOIL PPM	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Tri-Regional Board Staff Recommendations AU MAGAJA AZZA

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE		MODIFIED	PROTOCOL
<pre>< 10 ppm < 5 ppm < 1 ppm</pre>	(19%)	<pre> 10 ppm 5 ppm 1 ppm </pre>	(21%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- 10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- 11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chroma- togram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.



SITE SAFETY PLAN, JOB 11 .01

GENERAL INFORMATION:

SITE:

Company:

Location:

ARCO Products Co. # 2152 22141 Center St./Grove Way

City:

Castro Valley, CA 94546

PLAN PREPARED BY:

Gettler-Ryan Inc.

DATE: 1/03/95

OBJECTIVES:

To provide a plan for the safe completion of the site work.

PROPOSED DATE OF SITE

WORK:

1/16/95

DOCUMENTATION/

SUMMARY:

Hazardous material may be present, caution is advised. Site work includes removal of three gasoline UGST's

and demolition of all site improvements.

SITE/WASTE CHARACTERISTICS:

WASTE TYPE(S):

Liquid

Solid

Gas

CHARACTERISTIC(S):

Volatile

Flammable

Toxic

FACILITY DESCRIPTION:

Service station with underground utilities (disconnected)

STATUS:

Closed

HAZARD EVALUATION

PARAMETER:

TLV 300 ppm THC

HEALTH: ingestion, inhalation, absorption

LEL 10% Gastechtor max.

SPECIAL PRECAUTIONS

AND COMMENTS:

Correct safety procedures must be followed, per Gettler-Ryan Inc. Health and Safety Plan. UGST to be inerted per BAAQMD guidelines (Reg.8, Section 30) 30 lbs. of dry ice per 1000 gallon capacity to be placed in each

tank prior to removal.

SITE SAFETY WORKPLAN

PERIMETER

ESTABLISHMENT:

Use barricades and flagging to restrict access to tank

removal area and gasoline UGST work area. Site to be

fenced.

PERSONAL PROTECTION:

Level of Protection EPA Level D

Modifications: Rubber gloves & hard hats.
Surveillance Equipment and Material: Gastech

SITE ENTRY PROCEDURES:

None

DECONTAMINATION

PROCEDURES:

Personnel: Wash thoroughly with detergent solution and

water

Equipment: Steam clean if necessary

FIRST AID:

As applicable

WORK LIMITATIONS:

(Time of day, weather, heat/cold stress): None

INVESTIGATION-DERIVED

MATERIAL DISPOSAL:

Tank and lines to be manifested and hauled by

Erickson, Inc. All materials removed from tank hole to be sampled, placed on visqueen on site and covered until classified for proper disposal. All demolition

materials to be recycled as appropriate.

TEAM COMPOSITION:

Barry McCoy - Job Foreman, Site Safety Officer

1 Operator and crew from Tank Excavators

1 Field Technician from GeoTech Co.

EMERGENCY INFORMATION

LOCAL RESOURCES:

Ambulance/Hospital

Dial 911

Police/Sheriff/Hwy Patrol

Dial 911

Fire Department

Dial 911

SITE RESOURCES:

Water Supply

Telephone Visqueen

Fire Extinguisher

First Aid Kit Sorbant Pads

EMERGENCY CONTACT:

Gettler-Ryan Inc.

(510) 551-7555

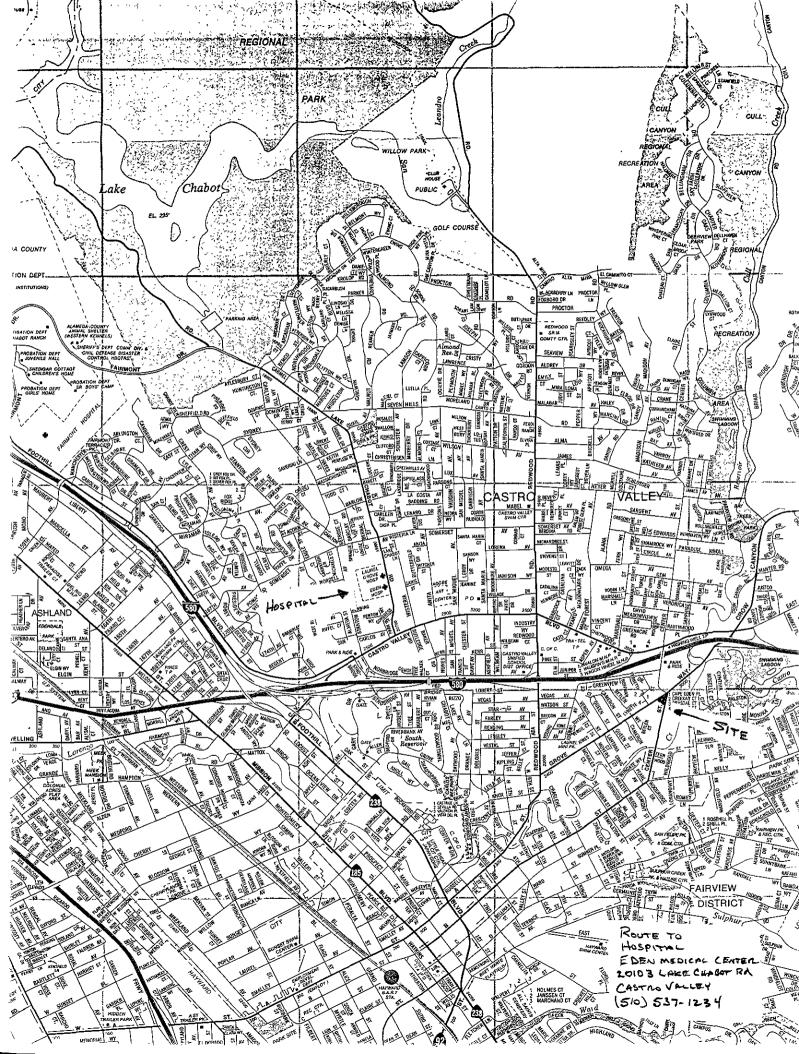
EMERGENCY ROUTES:

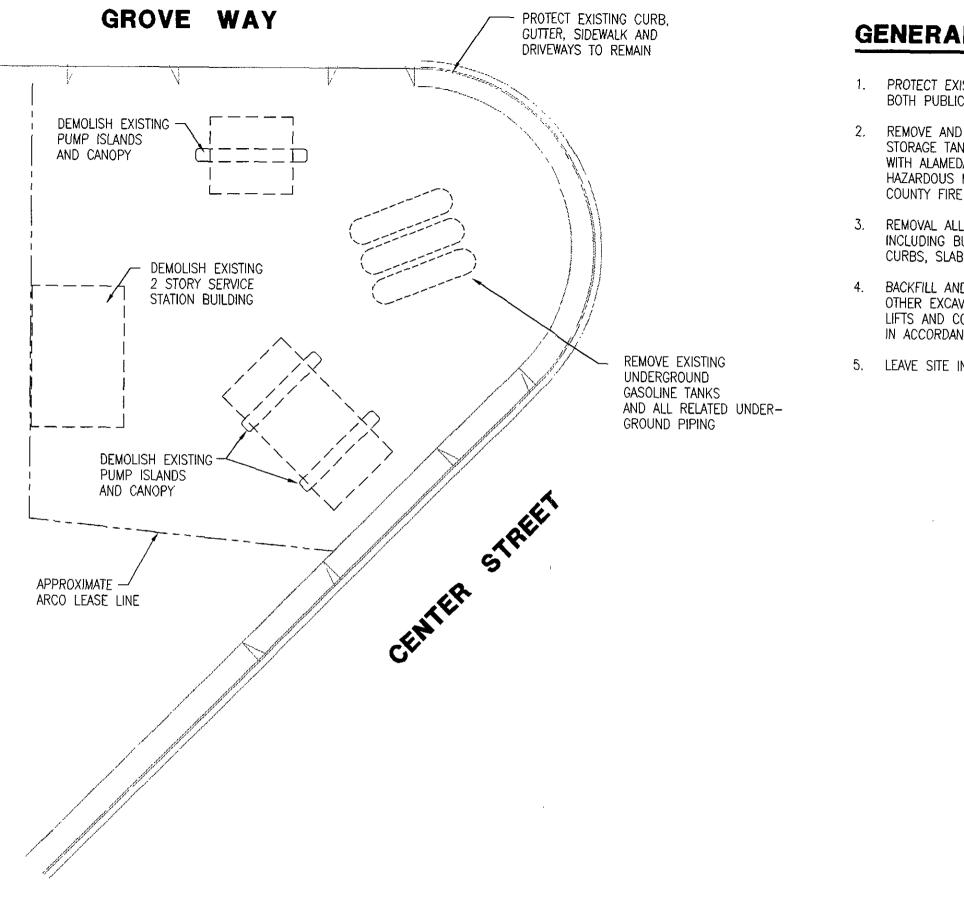
Nearest emergency hospital is:

EDEN MEDICAL CENTER 20103 Lake Chabot Road Castro Valley, CA 94546

(510) 537-1234

MAP ATTACHED





GENERAL NOTES

- 1. PROTECT EXISTING OFF-SITE IMPROVEMENTS, BOTH PUBLIC AND PRIVATE.
- REMOVE AND DISPOSE OF EXISTING UNDERGROUND STORAGE TANKS AND PIPING IN ACCORDANCE WITH ALAMEDA COUNTY ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION AND ALAMEDA COUNTY FIRE DEPARTMENT REQUIREMENTS.
- REMOVAL ALL EXISTING ON-SITE IMPROVEMENTS. INCLUDING BUILDINGS, FOUNDATIONS, PLANTERS. CURBS, SLABS, PAVING, ETC.
- BACKFILL AND COMPACT ALL TANK HOLES AND OTHER EXCAVATIONS IN 8" MAXIMUM THICKNESS LIFTS AND COMPACT TO 90% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
- 5. LEAVE SITE IN A RAKED CLEAN CONDITION.

DEMOLITION PLAN
FORMER STREET
CASTRO VALLEY, CALIFORNIA
DATE

(510) 551-7555 - Ryan

6747 Sierra Ct., S Dublin, CA 94568 Gettler

Scale in Feet

REVISED DATE

#2152 STATION

Matsen Insurance Brokers 1,00 Stony Point Road Ste.160 D. Box 907 Santa Rosa, CA 95402 COMPANY B LETTER Gettler-Ryan, Inc. & Geostrategies, Inc. 6747 Sierra Court, Suite J Dublin, CA 94568 COMPANY B LETTER THIS IS TO CERTIFY THAT THE POUCES OF INSURANCE LISTED BELOW HAVE INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE EXCEDED TO TYPE OF INSURANCE PROTECTION GENERAL LIABILITY COMPANY B C	COMPAI Transame	NTHE CERTION ALTER NIES AFF(PIÌCA II OTHE INSURII OTHERIT OTHERIT IES DESCRIBI BY PAID CLAI Y EXPIRATION EMM/DD/Y)	THE COV ORDING INSULTA: INSULTA:	ABOVE FOR TWITH RESPECT OF SUBJECT OF SUBJEC	RDED E	THE STATE OF THE S	OD HIS MS
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ARCO Products Company 2000 Alameda de las Puigas Mailing Address: Box 5811 San Mateo, California 94402 Telephone 415 571 2400

ALCC HAZMAT



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

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

Re: Transfer of ARCO Projects.

Dear Ms. Hugo:

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

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

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

Sincerely,

Kyle Christie

APPC-7025-D (9-88)

ALAMEDA.XLS

ALAMEDA COUNTY HEALTH DEPT.

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

Your Emcon contact is Mr. Jay Johnson.

Your Pacific Environmental Group contact is Mr. Greg Barclay

Your Brown & Caldwell contact is Mr. Ron Zurlinden

CONSULTANTS CONTACTS

Consultant Name	(APM)	Technical Coordinator (TC)	Area	The second state of the se
Brown & Caldwell	Mikk Anderson 150 So Апоуо Ркwy Pasadena, СА 91 109 (818) 577-1020 Fax (818) 795-6016	Ron Zurlinden 9616 micro Ave Sacramento, CA 95813-3449 (916) 444-0123 Fax (916) 856-5277 Ron Halsey 16735 Von Karman, Sulte 200 Irvine, CA 92714-4918 (714) 660-1070 Fax (714) 474-0940 Mike Higman 9040 Frairs Rd, Sulte 220 San Diego, CA 92108 (619) 528-9090 Fax (619) 528-9199	SW	(AC) Mat Quinn 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016
	Jon Pesicka 27141 Allso Creek Rd, Suite 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290	Todd Galati 3330 Data Dr, Suite 100 Rancho Cordova, CA 95670 (916) 638-2085 Fax (916) 638-8385 Jon Pesicka (714) 362-3077 Fax (714) 362-0290		Debbie Fluckiger 27 141 Ailso Creek Rd, # 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290
	.408) 453-7300 Fax (408) 437-9526	Rob Dixon 15055 SW Sequoia Pkwy, Sulte 140 Portland, OR 97224-7712 (503) 624-7200 Fax (503) 620-7658 Jay Johnson 1433 N Ave Market Blvd. Sacramento, CA 95834-1943 (916) 928-3300 Fax (916) 928-3341		Jeanette Memeo 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526

TOTAL P. 06.

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 951 10 (408) 441-7500 Fax (408) 441-7539	Greg Barclay 3050 Fite Circle, Suite 101 Sacramento, CA 95827 (916) 361-8091 Fax (916) 361-8094 Cleve Solomon 650 N Sierra Madre VIlla, Suite 204 Pasadena, CA 91107 (818) 351-4814 Fax (818) 351-4822		Norma Gutlerrez 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500 Fax (408) 441-7539
		Jim Ritchie 90 New Montgomery St, Suite 620 San Francisco, CA 94015-4503 (415) 882-1548 Fax (415) 882-4406 Kyle Emerson 1180 Nevada St, Suite 200 Rediands, CA 92374 (909) 335-6116 Fax (909) 335-6120 Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 Fax (805) 546-0583		Cindy Malloy 1734 - 34th St Sacramento, CA 95816-7004 (916) 456-4333 Fax (916) 456-0110

LAW OFFICES

WALTER & PISTOLE

An Association, including a Professional Corporation

WATERFALL TOWERS
2455 BENNETT VALLEY ROAD, SUITE 201B
SANTA ROSA, CALIFORNIA 95404
(707) 523-0732
FACSIMILE NO. (707) 523-0924

JEFFREY A WALTER*
VALERIE PISTOLE
JOHN EASTMAN
*A Professional Corporation

March 3, 1994

NAPA DEFICE

10050 EFFERSON STREET

1.P.O. BOX 508

NARA CALIFORNIA 94581

(707) 285 688

REPLY TO

1: 22

Scott Seery
Hazardous Waste Division
Alameda County Health Department
80 Swan Way, Room 200
Oakland, CA 94612
FAX 510-569-4757

Re: Arco Station #2142, 22141 Center Street, Castro Valley

Our File: Grove Way Mini Storage

Dear Mr. Seery:

Our client, Key Lease Corporation recently purchased the Grove Way Mini Storage in Castro Valley. Prior to the purchase, EnviroNet evaluated the site for potential impacts due to any releases of hazardous or potentially hazardous substances either from on-site or off-site sources.

EnviroNet's research revealed that the Arco Products Facility at 22141 Center Street, Castro Valley, was on the Leaking Underground Storage Tank (LUST) records. The records indicated that ARCO's Leading Underground Storage Tanks have impacted groundwater and further investigation and remediation are required. EnviroNet recommended that we contact your Agency in order to be kept apprised of any activity regarding the above site.

Therefore, as concerned adjacent property owners to the above-referenced Arco station, we are requesting that our firm be added to the "distribution" or "CC" list in order to receive copies of all correspondence and memos your office prepares in reference to this site.

Your cooperation in this matter is greatly appreciated.

Sincerely yours,

WALTER & PISTOLE

∕WALTER

JAW/af



93 SEP 20 PM 12: 21

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

TRANSMITTAL

Phone: (408) 264-772 FAX: (408) 264-2435

> TO: Mr. Scott Seery Alameda County Health Care Services Agency 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

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
·		Site Status Update for ARCO Stations:
1	9/2/93	ARCO Station No. 601, 712 Lewelling Boulevard, San Leandro, California.
1	9/2/93	ARCO Station No. 2152, 22141 Center Street, Castro Valley, California.
THESE A	RE TRANSMI	TTED as checked below:
[] For 1	review and com	nment [] Approved as submitted [] Resubmit copies for approval
[X] As a	requested	[] Approved as noted [] Submit copies for distribution
[] For a	approval	[] Return for corrections [] Return corrected prints
[X] For	your files	00
REMAR Copies:		project file no. 61026.02 John C. Young, Project Manager

cc: Mr. John Meck, ARCO Legal Mr. Richard Hiett, RWQCB

Mr. John Jang, RWQCB Mr. Gary Grimm, RWQCB

Mr. Mark Thomson, ACDAO

Mr. Michael Whelan, ARCO

TRANSMITAL SHET

DOCUMENT SENT TO: Mr. Scott Seery

Alameda County Health Care Services Agency

Facsimile Number: (510) 569 - 4757

DOCUMENT SENT FROM: VALLI VORUGANTI: RESNA/San Jose

3315 Almaden Expressway #34, San Jose, California 95118 (408) 264-7723

Facsimile Number: (408) 264-2435

Date Sent: January 26, 1993 Time Sent: 12.30 P.M.

DELIVER: _____ Immediately XXXX Same Day

CONFIRMATION OF RECEIPT REQUESTED: Yes XXX No (Recipient to call sender upon receipt.)

DOCUMENT DESCRIPTION: THIS IS TO NOTIFY ACHESA THAT START UP OF THE INTERIM SOIL REMEDIATION SYSTEM AT ARCO 2152 HAS BEEN INITIATED AT THE SITE ON JANUARY 25, 1993. THE SYSTEM WILL BE MONITORED ON A DAILY BASIS PER THE BAAQMD PERMIT REQUIREMENTS THE FIRST WEEK.

NUMBER OF PAGES (INCLUDING TRANSMITTAL SHEET): 1



93 2000 7 1 2:48

3315 Almaden Expressway, Suite 34

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

January 18, 1993 1118rhie 61078.02

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

Subject:

Remediation Schedules for ARCO Sites in Alameda County, California.

Dear Mr. Hiett:

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

The darkened lines on the schedules represent deadlines which were agreed upon during the September 30, 1992 meeting at the Alameda County Health Care Services Agency (ACHCSA). The hatchered lines represent our best guess estimates of times which may be required to complete tasks should unforeseen delays occur. These unforeseen delays include permitting issues, offsite access issues, and estimated times of operation of the respective remediation systems.

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.

cc:

Ms. Susan Hugo, ACHCSA

Mr. Michael Whelan, ARCO

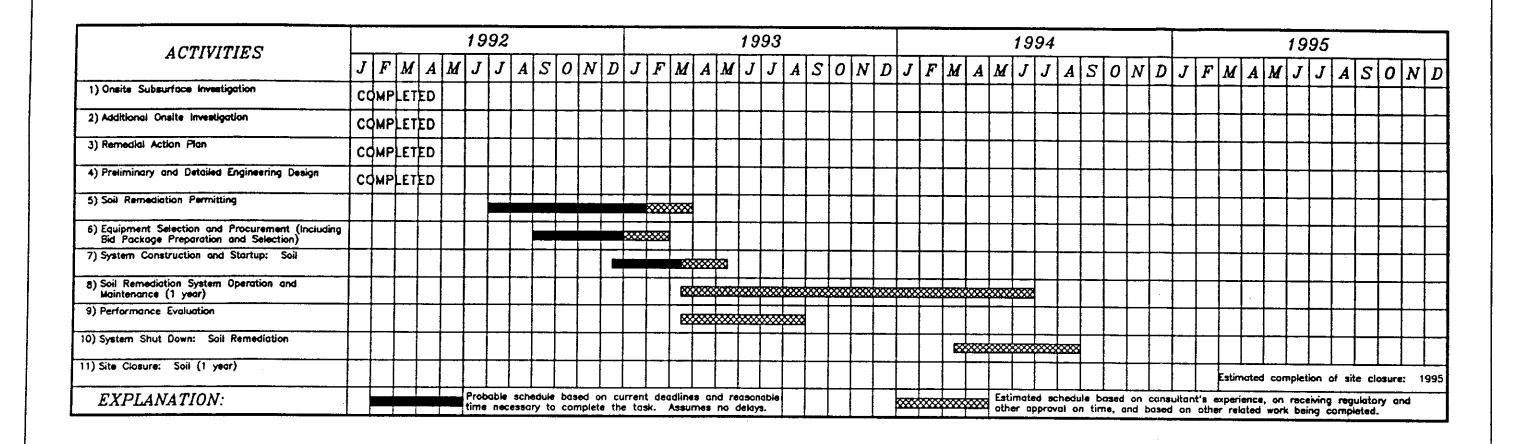
Mr. John Meck, ARCO legal

Mr. Chris Winsor, ARCO

Mr. Mark Thomson, Alameda County D.A. (Cover Letter)

Joel Coffman

Project Manager



1) Onsite Subsurface Investigation:

Initial Onsite Assessment Report completed. Vapor extraction testing completed prior to 1992.

2) Additional Onsite Investigation:
* Additional onsite Investigation complete. No further assessment is needed.

3) Remedial Action Plan:
RAP completed and approved by ACHCSA.

4) Preliminary and Detailed Engineering Design: Design completed.

5) Soil Remediation Permitting:
Permitting estimated to be completed by January 1993.

Groundwater has only shown occasional evidence of minor hydrocarbon impact and has been non-detectable since July 1991 sampling event. Assumes no permitting for groundwater system will be necessary.

6) Equipment Selection and Procurement: Completed.

7) System Construction and Startup (Soil):
* Assumes groundwater remediation will be addressed with soil system.

Assumes no delays due to weather.

Assumes no delays due to other contractors performing work onsite.

Assumes no delays due to utility installation.

- Construction initiated in October 1992, resumes December 1992, to be completed by mid-January 1993.
- Assumes no delays due to special permitting requirements. System startup to begin by March 15, 1993.

8) System Operation and Maintenance:
* Assumes that it is technically feasible to achieve cleanup levels.

Assumes no offsite remediation will be necessary. Assumes no significant equipment breakdowns.

Interim soil remediation system is expected to be in operation through March

9) Performance Evaluation:

- Evaluation shows that system will effectively remove hydrocarbons from soil and groundwater impacted areas and will reduce concentrations significantly
- Evaluation shows that additional vapor and groundwater extraction wells are not required to effectively remediate impacted areas once the treatment sys tern is operational.
- Performance evaluation to be completed by July 1993.

10) 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 July 1994.

- 11) Site Closure:
 Requirements for soil closure involve only drilling of confirmation borings and performance evaluation at time of system shutoff.
- Requirements for groundwater closure involve only groundwater monitoring and performance evaluation at system shutoff.
- Closure dependent on agency concurrence within 1 year following completion of verification manitoring.
- Assumes no risk assessment will be necessary.

Site closure anticipated for 1995.



ESTIMATED SOIL AND GROUNDWATER REMEDIATION IMPLEMENTATION SCHEDULE

PLATE

 \mathbb{A}

61078.02

REVISION: 2 DATE: 12/10/92

ARCO Station 2152 22141 Center Street Castro Valley, California

95 Jan 14 111 6: 60

January 13, 1993

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

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

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

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

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

Sincerely yours,

Kyle A. Christie

Environmental Engineer

Pardull Move

Attachments:

ARCO Facility QSRs

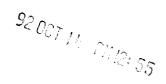
agenqsr.ltr 50013-004-06

HOT LEAV.	_	
UST LEAK Date of Last SITE UPDATE Review/Update September 25, 1992	Curren Date	
OTTE OF DATE TOWNSHIP OPERATE OF THE TENT	Date	December 20, 1392
SITE IDENTIFICATION		
Name ARCO Service Station 2152	Case N	lo
Address 22141 Center Street		
Street Number Street		
Castro Valley		94546 ZIP Code
City	•	
County Alameda (ACUCCA)	5	ubstance <u>Gasoline</u>
Local Agency Alameda County Health Care Services Agency (ACHCSA)		
Regional Board Regional Water Quality Control Board (CRWQCB)		
LEAD STAFF PERSON ACHCSA - Scott Seery		
CASE TYPE		
Undetermined Soil Only X Groundwater		Drinking Water
STATUS (Date indicates when case moved into status)		
No Action Taken		
X Leak Being Confirmed	Date	8/89
X Preliminary Site Assessment Workplan Submitted	Date	4/90
X Preliminary Site Assessment Underway	Date	6/90
X Pollution Characterization	Date	1/91
X Remediation Plan	Date	12/91
Remedial Action Underway	Date	
Post Remedial Action Monitoring	Date	<u></u>
Case Referred to Regional Board	Date	
Case Referred to Dept. of Health Services	Date	
Case Closed	Date	
COMMENTS/MILESTONES:		
USTs and product lines replaced in August through October 1989. 1850 cubic yards of soil removed to landfill. Received ACHCSA approval of remedial action plan for soil remediation. extraction system (VES) installation. Drilled two borings on February 12 and February 13, 1992. for Construction and Installation of VES for bid. Received all permits related to system const for Installation of VES. Awarded contract 10/92. System construction initiated 10/92 will be a	Receive Submit ruction.	d BAAQMD permit for vapor ted Plans and Specifications Received & evaluated bids
RECENT ACTIVITIES/FINDINGS:		
Last Quarter Activities: Finalized Limited Subsurface Investigation Report on 7/17/92. Final Monitoring Report on 9/23/92. Performed groundwater monitoring monthly and quarterly Specifications for Installation of a VES on 9/92.		
Current Quarter Activities: Performed monthly groundwater monitoring & quarterly groundware bids for installation of VES. Awarded contract in 10/92. Initiated system construction in 11/9		oling. Received & evaluated
ANTICIPATED ACTIVITIES:		
Next Quarter Activities: System installation by the end of 1/93. Initiate operation & maintena	nce of \	/ES.
Reports documenting the site's history are listed on page 2.		

REPORT	DATE	CONSULTANT
Third Quarter 1992 Groundwater Monitoring Report 69013.09	12/31/92	RESNA
Second Quarter 1992 Groundwater Monitoring Report 69013.09	9/23/92	RESNA
Plans and Construction Specifications and Contract Documents for Installation of VES 69013.08	9/16/92	RESNA
Limited Subsurface Environmental Investigation 69013.08	7/17/92	RESNA
First Quarter 1992 Groundwater Monitoring Report 69013.09	5/1/92	RESNA
Fourth Quarter 1991 Groundwater Monitoring Report 69013.09	3/13/92	RESNA
Fourth Quarter 1991 Groundwater Monitoring Report (DRAFT) 69013.09	12/17/91	RESNA
Permit Application for an Authority to Construct and Permit to Operate a Vapor Extraction System 69013.08	12/9/91	RESNA
Work Plan for Additional Subsurface Environmental Investigation and Design and Permitting of Vapor Extraction System 69013.08	10/22/91	RESNA
Third Quarter 1991 Groundwater Monitoring Report 69013.05	10/18/91	RESNA
Supplemental Subsurface and Remedial Investigation 69013-6	7/02/91	RESNA/Applied GeoSystems
Letter Report on Second Quarter 1991 Ground-Water Monitoring AGS 69013-5	5/20/91	RESNA/Applied GeoSystems
Letter Report Quarterly Ground-Water Monitoring, First Quarter 1991 AGS 69013-5	03/24/91	Applied GeoSystems
Environmental Subsurface Investigation at ARCO 2152, Castro Valley, CA AGS 69013-4	11/13/90	Applied GeoSystems
Addendum to Work Plan, Initial Subsurface investigation at ARCO 2152, Castro Valley, CA AGS 69013-3	5/14/90	Applied GeoSystems
Work Plan-Initial Subsurface Investigation at ARCO 2152 Castro Valley, CA AGS 69013-3W	4/1/90	Applied GeoSystems

REPORT	DATE	CONSULTANT
Environmental Investigation Related to Underground Tank Removal AGS 69013-2	1/18/90	Applied GeoSystems
Limited Environmental Site Assessment, Castro Valley, CA	5/26/89	Applied GeoSystems

October 12, 1992



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

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

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

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

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

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

Sincerely yours,

Kyle A. Christie

Environmental Engineer

Paralo CV. Mony

Attachments:

ARCO Facility QSRs

UST LEA SITE UP		st date	June 29, 1992			Current Date		ber 25, 1992
SITE IDE	ENTIFICATION					,		
Name	ARCO Service Station	on 2152				Case N	o	
Address	22141 Center Street							
	Street Number			5	Street			
	Castro Valley		<u> </u>		<u></u>			94546
	City						ZIP	Code
County	Alameda		·			. Su	bstance	Gasoline
Local Age	ncy <u>Alameda Coun</u>	ly Health Car	e Services Agency	(ACHCSA)			
Regional I	Board Regional Water	Quality Cont	rol Board (CRWQC	(B)	-			
LEAD S	TAFF PERSON	ACH	CSA - Scott Seery				<u>-</u>	
CASE T	YPE							
	Undetermined	s	ioil Only	<u>x</u>	Groundwater	-	[Orinking Water
STATUS X X X	No Action Taken Leak Being Confirme Preliminary Site Asse Preliminary Site Asse	d ssment Work ssment Unde	plan Submitted			Date Date Date Date	8/89 4/90 6/90 1/91	
X	Remediation Plan							
	Remedial Action Und	erway				Date		
	Post Remedial Action	Monitoring				Date		
	Case Referred to Reg	jional Board				Date		
	Case Referred to Dep	t. of Health	Services			Date		
	Case Closed					Date _		
USTs and removed t extraction	ENTS/MILESTONES I product lines replaced to landfill. Received AC system (VES) installation ruction and installation	in August the HCSA appro	val of remedial acti o borings on Februa	on plan for ary 12 and i	soil remediation. ebruary 13, 1992	. Received . Submitt	I BAAQMI	D permit for vapor
	T ACTIVITIES/FIND							
	rter Activities: Finalized and quarterly sampling.	First Quarte	er Groundwater Mo	nitoring Re	port on 5/1/92.	Perform	ed ground	dwater monitoring
Monitoring	luarter Activities: Finaliz g Report on 9/23/92. tions for Installation of s	Performed	groundwater monit	ation Reportoring mor	t on 7/17/92. Fir thly and quarter	nalized Se ly sampli	econd Qu ng. Sub	arter Groundwater mitted Plans and
ANTICIP	PATED ACTIVITIES:			-				
plans and to contract	nter Activities: ARCO to place of the specifications to local of tors to receive bids for any procurement and initiations.	city departme installation of	ents for approval to f VES. Receive, eva	install and	operate the VES.	Submit	the comp	leted bid package
Reports d	ocumenting the site's h	istory are list	ed on page 2.					

REPORT	DATE	CONSULTANT
Second Quarter 1992 Groundwater Monitoring Report 69013.09	9/23/92	RESNA
Plans and Construction Specifications and Contract Documents for Installation of VES 69013.08	9/16/92	RESNA
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Fourth Quarter 1991 Groundwater Monitoring Report 69013.09	3/13/92	RESNA
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Work Plan-Initial Subsurface Investigation at ARCO 2152 Castro Valley, CA AGS 69013-3W	4/1/90	Applied GeoSystems
Environmental Investigation Related to Underground Tank Removal AGS 69013-2	1/18/90	Applied GeoSystems

Limited Environmental Site Assessment, Castro Valley, CA AGS 69013-1

5/26/89

Applied GeoSystems





92 527 23 1210:47

3315 Almaden Expressway, Suite 34

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

> September 23, 1992 0923shgo

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

Subject:

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

Dear Ms. Hugo:

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

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

Sincerely,

RESNA Industries, Inc.

Joel Coffman

Project Geologist

cc:

Michael Whelan, ARCO Products Company John Jang, RWQCB Richard Hiett, RWQCB John Vargas, GeoStrategies

Proposed Agenda for September 30, 1992 ACHCSA Meeting

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





TRANSMITTAL

3315 Almaden Expressway, Suite 34

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

: (408) 264-7723 08) 264-2435				
TO: MR. SCOTT SEAR	<u>Y</u>		TE: JULY 23	
ALAMEDA COUNTY	PRO	DJECT NUMBE	R: 61026.01	
DEPT. OF ENVIR		TH SUF	SIECT: SITE	STATUS UPDATES
80 SWAN WAY, R				
OAKLAND, CALIF	ORNIA 94624			
FROM: <u>JOEL COF</u> TITLE: PROJECT	FMAN GEOLOGIST			
WE ARE SENDING YOU	Attached	[] Under sep	arate cover via	the following items:
[] Shop drawings	[] Prints	[] Reports	[] Specifications	•
[X] Letters	[] Change Or	ders []_		
COPIES DATED	NO.		DESCRIP	
1 EACH 6/18/92			· SITE STATUS U IS 601, 6041.	IPDATES FOR ARCO
1	<u> </u>	Jarron	13 001, 0041.	
1	1	1		
	1	i		
		<u> </u>		
THESE ARE TRANSMITTE	ED as checked belo	w:		
[] For review and comm	ent [] Approved a	as submitted	[] Resubmit _	_ copies for approval
X As requested	[] Approved a	as noted	[] Submitco	ppies for distribution
[] For approval	[] Return for	corrections	[] Return c	corrected prints
For your files	[]			
REMARKS: cc; MR. M	ICHAEL WHELAN	, ARCO		
Copies: 1 to project file no	61026-9			D : 11/01/01

*Revision Date: 11/21/91 *File Name: TRANSMT.PRJ 4/23/92 Non Moore (Sisco) Called Don Moore (Sisco) received BR updates of arco

April 13, 1992

92 477 11: 71: 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

Parser w. Mong

Attachments:

ARCO Facility QSRs

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

UST LEA SITE UP		January 6, 1992		Current Date	April 6, 1992
SITE IDE	ENTIFICATION		· · · · · · · · · · · · · · · · · · ·		
Name	ARCO Service Station 2152			Case No.	
Address	22141 Center Street				
	Street Number	· · · · · · · · · · · · · · · · · · ·	Street	····	
	Castro Valley				94546
	City				ZIP Code
County	Alameda			Subst	ance Gasoline
Local Age		n Care Services Agency (ACHC		•	
-	Board Regional Water Quality				
	Card Taglorial Water Geality	CONTROL COATO (CRAVOCOD)			
LEAD ST	AFF PERSON	ACHCSA - Scott Seery			
CASE TY	/PE				
	Undetermined	Soil Only X	Ground Water		Drinking Water
STATUS	(Date indicates when case mo	ved into status)	- 1.5-11.		
	No Action Taken				
X	Leak Being Confirmed			Date 8	3/89
X	Preliminary Site Assessment	Workplan Submitted		Date 4	/90
X	Preliminary Site Assessment	Underway		Date 6	5/90
<u> </u>	Pollution Characterization			Date1	/91
X	Remediation Plan			Date 12	2/91
	Remedial Action Underway			Date	
	Post Remedial Action Monitor	ing		Date	
	Case Referred to Regional Bo	eard		Date	
	Case Referred to Dept. of He	alth Services		Date	
	Case Closed			Date	
USTs and removed to	landfill. Received ACHCSA a	ist through October 1989. 1850 pproval of remedial action plan ary 12, and February 13, 1992.			
RECENT	ACTIVITIES/FINDINGS:			.	
	er Activities: Submitted Work omitted BAAQMD permit applic	Plan to ACHCSA on 10/21/91. eation 12/10/91.	Submitted Third Qu	uarter 1991 G	iroundwater Monitoring
		process of preparing plan and s ed the PG&E service forms for I			
ANTICIPA	ATED ACTIVITIES:			****	
city departr	•	quarterly groundwater monitori d operate the VES. Submit the of f VES.	-		•
Reports do	cumenting the site's history are	listed on page 2.			

REPORT Fourth Quarter 1991 Groundwater Monitoring Report 69013.09	<u>DATE</u> 3/13/92	<u>CONSULTANT</u> RESNA
Fourth Quarter 1991 Groundwater Monitoring Report (DRAFT) 69013.09	12/17/91	RESNA
Permit Application for an Authority to Construct and Permit to Operate a Vapor Extraction System 69013.08	12/9/91	RESNA
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Third Quarter 1991 Groundwater Monitoring Report 69013.05	10/18/91	RESNA
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Limited Environmental Site Assessment, Castro Valley, CA AGS 69013-1	5/26/89	Applied GeoSystems





3315 Almaden Expressway, Suite 34

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

TRANSMITTAL

TO: MR. SCOTT SEERY	DATE:3/20/92
ACHCSA-DEH	PROJECT NUMBER: 69013.08
HAZARDOUS MATERIALS DIVISION	
80 SWAN WAY, ROOM 200	22141 CENTER STREET, CASTRO VALLEY,
OAKLAND, CALIFORNIA 94624	CALIFORNIA.
Onthino, until vitali	
FROM: JOEL COFFMAN	
TITLE: PROJECT GEOLOGIST	•
TILE. PROJECT GEOLOGIST	
WE ARE SENDING YOU KAAttached	[] Under separate cover via the following items:
[] Shop drawings [] Prints	[] Reports [] Specifications
[XX Letters [] Change Or	rders []
COPIES DATED NO.	DESCRIPTION
1 3/20/92	LETTER DATED JANUARY 30, 1992 FROM ACHCSA TO
	MR. CHUCK CARMEL OF ARCO, CONCERNING THE ABOVE
	SUBJECT SITE.
THESE ARE TRANSMITTED as checked belo)W:
[] 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. 69013.08	
	*Revision Date: 11/21/91

CC: CHUCK CARMEL, ARCO PRODUCTS COMPANY CHRIS WINSOR, ARCO PRODUCTS COMPANY EDDY SO, RWQCB

J.P. MECK, ARCO LEGAL DEPT.

*File Name: TRANSMT.PRJ

RAFAT A. SHAHID, Assistant Agency Director

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

Mr Chuck Carmal

January 30, 1992

Mr. Chuck Carmel
ARCO Products Company
2000 Alameda de las Pulgas
P.O. Box 5811
San Mateo, CA 94402

RE: ARCO STATION #2152, 22141 CENTER STREET, CASTRO VALLEY, ALAMEDA

Dear Mr. Carmel:

The Department is in receipt and has completed review of the following RESNA/Applied GeoSystems (AGS) proposals and reports addressing planned and completed environmental remediation and investigation work at the referenced site: Letter Report, Quarterly Groundwater Monitoring, Third Quarter 1991, October 18, 1991; Work Plan for Additional Subsurface Investigation and Design of Vapor Extraction System, October 22, 1991; and, Permit Application for Authority to Construct and Permit to Operate a Vapor Extraction System, December 9, 1991. The Department has further reviewed the content of the September 26, 1991 correspondence from your office which briefly described the content of the (then) pending soil vapor extraction system work plan to be submitted by your consultant, The noted ARCO letter also responded to several points outlined in the Department's September 4, 1991 correspondence which commented on the results of the RESNA/AGS vapor extraction test performed at the site.

As articulated in the referenced September 4, 1991 correspondence from this office, the Department agrees in principle that soil venting/vapor extraction may be a reasonable approach to the remediation of soils impacted by fuel hydrocarbons at many sites. However, the effectiveness of such a system is strongly dependent upon several factors, including the permeability of the affected soil needing remediation, largely a function of soil particle size. Gravels and sands are obviously more permeable than silts and clays and, hence, will generally benefit more from soil vapor extraction schemes than will the latter sediment types. When soil vapor extraction wells are installed and screened across contacts separating distinctly different sediments exhibiting different permeabilities (e.g., B-9/VW-4: clayey sand to gravelly sand to silty clay), air will preferentially flow through the more permeable sediments. Further, with vapor wells installed through, or in close proximity to, a permeable pea gravel tank backfill, as occurs with all the vapor wells at this site, each well's perceived radius of influence will be distorted by preferential air flow vertically or horizontally through the pea gravel. Such flow has the effect of "short circuiting" the system, potentially reducing air flows through the contaminated native soils.

Mr. Chuck Carmel
RE: ARCO #2152, 22141 Center Street, Castro Valley
January 30, 1992
Page 2 of 4

Although this concern was outlined in the September 4, 1991 Department correspondence, no attempt to discuss the potential limitations of the planned remediation system as a result of preferential air flow through the pea gravel backfill has been provided by either RESNA/AGS or ARCO. The October 22, 1991 RESNA/AGS soil vapor work plan indicated that the "vacuum impact" through the pea gravel would be high. But the question of how such enhanced vacuum impact through the pea gravel will positively impact the remediation of less-permeable native soils has not been answered. During my recent telephone conversations with Mr. Joel Coffman of RESNA/AGS, this point, among others, was raised. A subsequent conversation yesterday with a RESNA engineer confirmed that such system limitations likely exist.

The Department feels that an <u>initial</u> attempt to remediate the native soil through implementation of the proposed vapor extraction system is warranted, in spite of any potential limitations the system may have. Hence, the proposed soil vapor extraction system work plan has been approved. This approval also embraces the work plan's proposal to further investigate soil contamination in the area adjacent to the former product lines along Center Street, and the potential subsequent completion of these borings into vapor extraction wells.

In our experience, however, a single remediation technique is often not adequate to clean up a given site to acceptable levels; often it is necessary to implement a battery of remediation schemes, either individually or concurrently, before hitting upon a successful combination. The success or failure of the present remediation system will have to be appropriately evaluated at a future date. As a result of this evaluation, modifications to the existing system, or the implementation of additional soil and/or ground water remediation systems, may be required before the clean-up is considered "adequate."

Be advised that the Department's acceptance of this vapor extraction proposal is based upon the following conditions:

1) Following a period of soil vapor extraction and treatment, the success of the system in remediating fuel-impacted soils must be evaluated. Such an evaluation will not be based solely upon an observed reduction of target compound concentrations in the soil vapor influent. Confirmatory soil borings and sample analyses are required. The locations of such borings must be approved in advance by this Department.

Mr. Chuck Carmel

RE: ARCO #2152, 22141 Center Street, Castro Valley

January 30, 1992

Page 3 of 4

2) Additional soil vapor extraction wells will be required if the effectiveness of the present design is hampered by the proximity of the tank backfill to the present extraction points. Such additional wells must be located where they will be most able to enhance the volatilization and removal of fuel hydrocarbons from native soil. The locations and number of additional vapor extraction wells must be approved in advance by this Department.

3) Should soil vapor extraction prove to be an ineffective tool for reducing fuel hydrocarbon concentrations to acceptable levels, additional soil remediation techniques may be required.

We appreciate ARCO's patience while awaiting the Department's review of the referenced RESNA/AGS soil vapor extraction work plan. As I discussed with you and Mr. Coffman last week, neither the September 26 ARCO correspondence or the October 22 RESNA/AGS work plan contained all the information needed for an informed review of the soil vapor extraction proposal. Several key plates and equipment specification sheets were missing from both documents, even though the text in both documents indicated that such plates/specification sheets were included. However, the December 9, 1991 RESNA/AGS permit application to the BAAQMD provided many of the key elements missing from the prior two documents, as described below.

Among the plates missing from the October 22 work plan were: 1) the remediation compound layout and process flow diagram (Plate 4); 2) typical trench and wellhead details (Plate 5); 3) process and instrumentation drawing (Plate 6); and, 4) electrical one-line diagram (Plate 7). Fortunately, the December 9 RESNA/AGS permit application did provide the most important of these plates for our purposes, Plate 4. Also, the missing trench and wellhead connection diagram was provided as two separate plates in the September 26 ARCO correspondence, as Plates 3 and 4, respectively. However, Plates 5, 6, and 7, as intended for inclusion in the RESNA/AGS work plan, are still missing. (Please note that the October 22 work plan provided diagrams labelled Plates 4 through 7, but were actually site geologic cross sections, not the remediation system diagrams as indicated in text.)

The September 26 ARCO correspondence provided general background information for the project, much of which was intended to respond to comments outlined in the September 4 correspondence from this office, as indicated previously in this letter. However, as with the RESNA/AGS work plan, information referenced as being included with this document were missing: 1) a description of activated carbon and the performance curve for the vapor-extraction blower; and, 2) vapor-extraction blower specifications. Fortunately, these specifications were provided in the noted December 9 RESNA/AGS permit application.

Mr. Chuck Carmel
RE: ARCO #2152, 22141 Center Street, Castro Valley
January 30, 1992
Page 4 of 4

In closing, I would like to comment on statements made in RESNA/AGS correspondence dated January 23, 1992. This letter was apparently authored after I spoke with both you and Mr. Coffman on January 23. The letter states that RESNA/AGS had attempted to contact me by telephone several times over an unspecified period of time, and that messages were left for me to call. The letter also states that I had not returned any of RESNA/AGS's calls. Who placed these calls was not indicated. The letter further states that none of their (RESNA/AGS) messages had been returned, until that day, January 23rd.

For the record, my call to Mr. Coffman was <u>not</u> in response to a message left by RESNA/AGS, but rather by my initiative to inform him, as I did you, that I was beginning to review the soil vapor extraction work plan and related documents. To my best recollection, the only calls I have received regarding this case have been from you, not RESNA/AGS. As you know, both of us left messages for each other over the course of several weeks without a connection, a symptom of both our busy schedules.

The Department expects that we will be contacted once the soil vapor extraction system has been installed, and the system is ready for start-up. Please feel free to contact me at 510/271-4320 should you have any questions or comments.

Sincerely

Scott O. Seery, CHMM

Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health Edgar Howell, Chief, Hazardous Materials Division Gil Jensen, Alameda County District Attorney's Office Lester Feldman, RWQCB Howard Hatayama, DTSC Bob Bohman, Castro Valley Fire Department Joel Coffman, RESNA/Applied GeoSystems (San Jose office) John P. Meck, ARCO Products Company, Legal Division files

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

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

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

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

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

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

Sincerely yours,

Kyle A. Christie

Environmental Engineer

Attachments:

ARCO Facility QSRs

UST LEAK SITE UPDATE	Date of Last Review/Update	September 6, 1991		Current Date	January 6, 1992
SITE IDENTIFIC	ATION			· · · · · · · · · · · · · · · · · · ·	
NameARCO	Service Station 2152			Case N	o
	Center Street				
St	reet Number		Street		
Castro	Valley City				94546 ZIP Code
Caucati Alama	•			C.	
County Alame		- M. C C A		, SI	ubstance <u>Gasoline</u>
Local Agency		alth Care Services Agency			
Regional Board	Regional Water Qua	ality Control Board		·-· - · · · · ·	· · · · · · · · · · · · · · · · · · ·
LEAD STAFF PE	ERSON <u>A</u>	CHCSA - Scott Seery			
CASE TYPE					
Undeter	mined	Soil Only	Ground Water		Drinking Water
STATUS (Date inc	dicates when case move	ed into status)			
	on Taken				
X Leak Be	ing Confirmed			Date	8/89
X Prelimin	ary Site Assessment W	orkplan Submitted		Date	4/90
	iary Site Assessment Ur	nderway		Date	6/90
	n Characterization			Date	1/91
	ation Plan			Date _	12/91
	al Action Underway			Date _	
	medial Action Monitorin	-		Date _	
	eferred to Regional Boa			Date _	
•	eferred to Dept. of Healt	th Services		Date _	
Case CI				Date _	
COMMENTS/MI	LESTONES:				
		t through October 1989. 18 esal to install wells, and perr			
RECENT ACTIVI	TES/FINDINGS:				
Last Quarter Activiti		of subsurface investigation rting.	and remediation inves	stigation	(July 2, 1990). Performed
	vities: Submitted Work BAAGMD permit applica	Plan to ACHCSA on 10/21/ tion 12/10/91.	91. Submitted Third Q	uarter 199	91 Groundwater Monitoring
ANTICIPATED A	CTIVITIES:		· · · · · · · · · · · · · · · · · · ·		
		quarterly groundwater moni oundwater monitoring repo		t applicat	tion in progress at Building
Reports documentin	ng the site's history are	listed on page 2.			

REPORT Fourth Quarter 1991 Groundwater Monitoring Report (DRAFT) 69013.09	<u>DATE</u> 12/17/91	CONSULTANT RESNA
Permit Application for an Authority to Construct and Permit to Operate a Vapor Extraction System 69013.08	12/9/91	RESNA
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Limited Environmental Site Assessment, Castro Valley, CA AGS 69013-1	5/26/89	Applied GeoSystems

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





3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2435 \$2 day - 2 day - 82

January 8, 1992 0107ssry

Mr. Scott Seery Alameda County Health Care Services Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Subject:

cc:

Request for Review of Work Plan for Additional Subsurface Investigation and Design and Permitting of Vapor Extraction System at ARCO Station 2152,

22141 Center Street, Castro Valley, California.

Dear Mr. Seery:

This letter is submitted to request your review and any comments you may have concerning the subject Work Plan submitted to your agency by RESNA on October 21, 1991. To date, we haven't received any response to the proposed work outlined in the subject Work Plan and are currently awaiting either your comments or approval to proceed.

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

Sincerely, RESNA

Joel Coffman Project Geologist

Chuck Carmel, ARCO Products Company



UST LEAK	Date of Last			Current	
SITE UPDATE	Review/Update	September 6, 1991	<u></u>	Date	January 6, 1992
SITE IDENTIFIC	ATION			· · · · · · ·	<u></u>
Name ARCO	Service Station 2152			Caso N	lo.
	Center Street			Q236 IV	·
	reet Number	<u> </u>	Street		
Castro	Valley				94546
-	City		<u> </u>		ZIP Code
County Alame	da			St	ıbstance <u>Gasoline</u>
Local Agency	Alameda County He	alth Care Services Agency			
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LEAD STAFF PE	ERSON <u>A</u>	CHCSA - Scott Seery			
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Next Quarter Activiti Department ARCO	es: ARCO to perform q to prepare quarterly gro	uarterly groundwater moni oundwater monitoring repo	toring. Building permit rt.	t applicat	ion in progress at Building
Reports documentin	g the site's history are li	isted on page 2.			

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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

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Sincerely,

Kyle A. Christie

Environmental Engineer

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UST LEA		of Last w/Update	April 15, 1991			Current Date	September	6 1001
	 		April 15, 1991				September	0, 1991
SITE IDE	NTIFICATION							
Name	ARCO Service	Station 2152				Case N	o	
Address _	22141 Center				Street			
	Street Nun	nper			30 00 1		,	AFAC
-	Castro Valley City						ZIP C	94546 ode
County	Alameda					Sı	ubstance	
Local Agend		eda County He	alth Care Services Age					
Regional Bo			ality Control Board					
	Jaid <u>Hegi</u>	Uliai Water Guz	unty control board					
LEAD ST	AFF PERSON	<u>A</u>	CHCSA - Scott Seery					
CASE TY	PE							
	Undetermined		Soil Only	X	Ground Water		Dri	nking Water
STATUS	(Date indicates w	then case move	ed into status)					· · · · · · · · · · · · · · · · · · ·
	No Action Taker	1						
X	Leak Being Con	firmed				Date	8/89	
X	Preliminary Site	Assessment W	orkplan Submitted			Date	4/90	
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X	Pollution Charac	cterization				Date	1/91	
	Remediation Pla	ın				Date		
	Remedial Action	Underway				Date		
	Post Remedial A	Action Monitoria	ng			Date		
	Case Referred to	-				Date .		
	Case Referred to	o Dept. of Heal	th Services			Date ,		
	Case Closed					Date		
REMEDIA	L ACTIONS							
USTs and premoved to		laced in Augus	t through October 198	9. 1850	cubic yards of soil	excavate	ed and aera	ated onsite; soil
COMMEN	ITS							
Last Quarter and reporting		rmed subsurfa	ce investigation and Va	por Extrad	tion Test. Perform	ed quarte	erly groundy	vater monitoring
	arter Activities: S oundwater moni		rt of subsurface invest orting.	igation ar	d remediation inve	estigation	1 (July 2, 19	90). Performed
Next Quarte	er Activities: Per	form quarterly	groundwater monitorin	g and rep	orting. Initiate des	sign of va	apor extract	ion system.
Reports doc	cumenting the si	te's history are	listed on page 2.					
USTARCO.F	RM/12/90/ssj					····		

REPORT	<u>DATE</u>	CONSULTANT
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Environmental Investigation Related to Underground Tank Removal AGS 69013-2	1/18/90	Applied GeoSystems
Limited Environmental Site Assessment, Castro Valley, CA AGS 69013-1	5/26/89	Applied GeoSystems

September 4, 1991

Mr. Charles Carmel Arco Products Company P.O. Box 6411 Artesia, CA 90702-6411 DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621 (415)

RE: ARCO STATION # 2152, 22141 CENTER STREET, CASTRO VALLEY, ALAMEDA COUNTY

Dear Mr. Carmel:

The Alameda County Environmental Health Department, Hazardous Materials Division, is in receipt and has completed review of the following Applied GeoSystems reports documenting the ongoing investigation at the referenced Castro Valley facility: Letter Report, Quarterly Ground-Water Monitoring, First Quarter 1991: March 24, 1991; Letter Report, Quarterly Ground-Water Monitoring, Second Quarter 1991: May 20, 1991; and, Supplemental Subsurface and Remedial Investigation: July 2, 1991. Based on the results of ground water monitoring performed to date, with the sole exception being the first round of sampling June 1990, ground water appears not to be impacted by fuel hydrocarbons resulting from past leaks from the former underground storage tank (UST) systems prior to their replacement in 1989. The June 1990 "hits" may have been as a result of isolated laboratory-induced errors, as no target compounds have been detected in sampled ground water since.

This Department agrees in principle that soil venting/vapor extraction may be a reasonable approach, at least initially, to remediate soils impacted by fuel hydrocarbons. The scientific literature recognizes the difficulty in remediating fuel hydrocarbon contamination in soils with low permeability (k<10 $^{\rm l}$ darcys), typical of the silts and clays underlying the subject site. Under such low permeability conditions, particularly with clays, contamination may be difficult to remove by any method, short of excavation. Other factors also may influence the effectiveness of a soil vapor extraction system, such as soil moisture content, temperature, capillary forces, adsorption site density, stratigraphy, and any other factors which may impact the radius of influence (R₁) from an extraction well (e.g., vertical vapor flow).

Not all the induced air flow will pass through regions of soil impacted by contaminants, such as in areas where air flow is enhanced by passing through the permeable tank pit backfill, limiting the effective air flow rate, and skewing the anticipated venting project's duration. If conditions allow vapor flow through the contaminated regions, however, the more volatile compounds benzene, toluene, and xylenes, will be effectively removed fairly rapidly. Unfortunately, gasoline contains 10-20% of relatively nonvolatile compounds (>C10) which are not readily removed by soil venting/vapor extraction.

Mr. Charles Carmel RE: Arco #2152, 22141 Center St., Castro Valley September 4, 1991

As stated previously, the Department accepts in "principle" the use of soil venting/vapor extraction as a means of in situ treatment of contaminated soils underlying the site. However, additional technical information, in the form of a remediation system proposal, is required before the project may officially be accepted. The following is a list, albeit incomplete, of the type of additional information required by this Department:

- o Describe permit requirements (i.e., BAAQMD, TSCD TTU variance, Alameda County Building Dept., etc.)
- o TSCD TTU contingency plan
- o Engineering drawings, site plan showing equipment locations/plumbing, equipment cut sheets (e.g., TTU, air flow meters, bypass/flow control valves, sampling ports, etc.)
- o Automated microprocessor or manual data logging systems
- o Treatment unit specifications
- <u>Fans</u>: forced draft injection <u>or</u> induced draft extraction (positive vs. negative pressure systems)
- Monitoring requirements: ground water, soils, process air flows and temperatures, exhaust gas, equipment, etc.
- o Proposed schedule for installation and start-up of the system
- o Exposure pathway analysis

As stated previously, the success of a soil venting/vapor extraction system is highly dependent upon site-specific conditions. Both bench-scale and pilot-scale studies support that success is best achieved in highly permeable sandy soils with little or no clays. Such studies have shown that low porosity or clayey soils will require additional time to establish the <u>effective</u> pressure gradient required to enhance volatilization. Recovery periods will likewise reflect site-specific conditions, and are a function of those environmental and engineering factors limiting preferential air flow through the contaminated zones.

A means of determining the effectiveness of the system during its operation, as well as after the proposed 4 month duration of the project, will need to be addressed in the pending remediation proposal. The life of the project will then need to be modified as appropriate, or the technology changed (e.g., enhanced in situ biodegradation), based on its success following the initial treatment period.

Mr. Charles Carmel RE: Arco #2152, 22141 Center St., Castro Valley September 4, 1991 Page 3 of 3

Please submit the soil venting/vapor extraction proposal within 45 days of the date of this letter, or by October 20, 1991.

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response could result in the referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil penalties to a maximum of \$1,000 per day. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB.

Should you have any questions about the content of this letter, please call me at 510/271-4320.

Sincerely,

Scott O. Segry, CHMM

Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health Edgar Howell, Chief, Hazardous Materials Division Gil Jensen, Alameda County District Attorney's Office Lester Feldman, RWQCB Howard Hatayama, TSCD Bob Bohman, Castro Valley Fire Department Joan Tiernan, Applied GeoSystems (San Jose office) files

July 15, 1991

Alameda County Department of Environmental Health 80 Swan Way
Oakland, California 94621

Attention: Mr. Rafat Shahid

ARCO Products Company Facilities in Alameda County - RWQCB Fuel Leaks List

Dear Mr. Shahid

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

The QSRs are classified by address within the County. We are submitting this document and attached QSRs as agreed in our recent meeting with the RWQCB. Please note that we are forwarding copies of the QSRs to the RWQCB as well.

ARCO Products Company has reviewed the Regional Water Quality Control Board's (RWQCB) February 19, 1991 printout of ARCO fuel leak sites in the San Francisco Bay Area. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. It is ARCO's belief that several of the sites originally attributed to ARCO are actually the responsibility of other parties. We have therefore prepared QSRs and a brief discussion regarding those sites which we believe should either be removed from ARCO responsibility or be considered for closure.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on October 15, 1991. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely,

t₁ / Kyle A. Christie

Environmental Engineer

Lui Chanales

Attachments:

Non-ARCO Facility/Site Closure Discussion and QSRs

ARCO Facility QSRs

NON-ARCO FACILITY/SITE CLOSURE DISCUSSION AND QSRS

Alameda County

Alameda County Sites

Two ARCO facilities including Station Numbers 4977 and 6002 (located at 2770 Castro Valley Road, Castro Valley and 6235 Seminary Avenue, Oakland) experienced vapor/vent line failure during UST system precision testing. In accordance with State Water Resources Control Board (SWRCB) letter LG-43, ARCO requests that these facilities be removed from the RWQCB fuel leaks list.

A small volume of hydrocarbons were released from ARCO Station Number 498 located at 286 South Livermore Avenue, Livermore. The product was released to an on-site secondary containment trench and was subsequently removed; no product was released to the soil or groundwater. Alameda County issued a letter to ARCO on May 24, 1991 stating that no further action is necessary at this site.

A total of seven Alameda County ARCO facilities listed by the RWQCB were not ARCO-owned at the time of the release discovery and/or report. These sites include Station Numbers 188, 329, and 623 (respectively located at 4191 First Street, Pleasanton, 2032 12th Street, Oakland, and 2110 Mountain, Oakland) and facilities located at 2951 High Street, 4401 Market Street, 2844 Mountain Boulevard, and 2740 98th Street, Oakland.

ARCO has prepared QSRs for each of these facilities; however, we request that the cases be omitted from the leaks list or be referred to the actual responsible party, as appropriate. The ownership information for the individual sites is included on the attached QSRs.

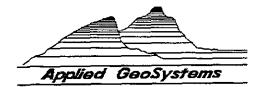
Finally, the RWQCB February 19, 1991 printout lists two sites which are actually the same. The facility listed as 71 MacArthur Boulevard is actually ARCO Service Station Number 4931 located at 731 West MacArthur Boulevard in Oakland.

Attachment:

Non-ARCO Facility QSRs

UST LEA		Current Date _	July 15, 1991
SITE IDE	NTIFICATION		
Name	ARCO Service Station 2152	Case No.	
Address	22141 Center Street		
	Street Number Street		
	Castro Valley		94546
	City		ZIP Code
County	Alameda	Subs	tance Gasoline
Local Age	ncy Alameda County Health Care Services Agency		
Regional E	Board Regional Water Quality Control Board	··-	· · · · · · · · · · · · · · · · · · ·
LEAD ST	AFF PERSON ACHCSA - Scott Seery		
CASE TY	/PE		
	Undetermined Soil Only Ground Water		Drinking Water
STATUS	(Date indicates when case moved into status)		
	No Action Taken		
	Leak Being Confirmed	Date	
	Preliminary Site Assessment Workplan Submitted	D-1-	
	Preliminary Site Assessment Underway	Date	
	Pollution Characterization	Date	
	Remediation Plan		
	Remedial Action Underway	Date	
•	Post Remedial Action Monitoring		
	Case Referred to Regional Board		
	Case Referred to Dept. of Health Services		
	Case Closed	Date	
REMEDI. ACTION:			
COMME	NTS		
Test (VET)	parter 1991 ARCO drilled 9 soil borings, installed 3 additional vadose zone wells, and to evaluate the effectiveness of vapor extraction as a soil remediation technique. It able. ARCO is currently monitoring water levels monthly and water quality quarter.	Hydrocarbons	n onsite Vapor Extraction in ground water remain
Please refe	er to the attached page for listing of previously submitted reports which document	t site history.	
RESPON	ISIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)		
Name			
Contact		Phone _	(
Address			
	Street Number Street		
	City State		ZIP Code
USTARCO	FRM/12/90/ssj		

REPORT	DATE	CONSULTANT
Letter Report on Second Quarter 1991 Ground-Water Monitoring AGS 69013-5	5/20/91	RESNA/Applied GeoSystems
Letter Report Quarterly Ground-Water Monitoring, First Quarter 1991 AGS 69013-5	03/24/91	Applied GeoSystems
Environmental Subsurface Investigation at ARCO 2152, Castro Valley, CA AGS 69013-4	11/13/90	Applied GeoSystems
Addendum to Work Plan, Initial Subsurface Investigation at ARCO 2152 Castro Valley, CA AGS 69013-3	5/14/90	Applied GeoSystems
Work Plan-Initial Subsurface Investigation at ARCO 2152 Castro Valley, CA AGS 69013-3W	4/1/90	Applied GeoSystems
Environmental Investigation Related to Underground Tank Removal AGS 69013-2	1/18/90	Applied GeoSystems
Limited Environmental Site Assessment, Castro Valley, CA AGS 69013-1	5/26/89	Applied GeoSystems



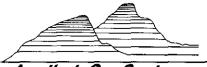
TRANSMITTAL

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

DEPARTMENT OF 80 SWAN WAY, R OAKLAND, CA 9 FROM: STEVE BITT	ENVIRON. HEALTH ROOM 200	DATE: 11/20/90 PROJECT NUMBER: 69013-4 SUBJECT: RESPONSE TO LETTER
WE ARE SENDING YOU [] Shop drawings [] Letters	[] Prints [] Rep	the following items: Open
COPIES DATED 11/19/90	LETT	DESCRIPTION CONSE TO ALAMEDA COUNTY HEALTH AGENCY CER DATED OCTOBER 25, 1990 REGARDING D STATION 2152, 22141 CENTER STREET, CASTRO LEY, CA.
THESE ARE TRANSMITTED [] For review and comment [XX As requested [] For approval [] For your files	Approved as submitted Approved as noted Return for correction	[] Resubmit copies for approval [] Submit copies for distribution [] Return corrected prints
REMARKS:		
Copies: 1 to AGS project file no	o. <u>69013-4</u> 90 5	SJ. READER'S FILE

*Revision Date: 10/15/90 *File Name: TRANSMT.PRJ

REPORT	DATE	CONSULTANT
Environmental Subsurface Investigation at ARCO 2152, Castro Valley, CA	11/13/90	Applied GeoSystems
Addendum to Work Plan, Initial Subsurface Investigation at ARCO 2152 Castro Valley, CA AGS 69013-1	5/14/90	Applied GeoSystems
Work Plan-Initial Subsurface Investigation at ARCO 2152 Castro Valley, CA AGS 69013-3W	4/1/90	Applied GeoSystems
Environmental Investigation Related to Underground Tank Removal	1/18/90	Applied GeoSystems
Limited Environmental Site Assessment, Castro Valley, CA AGS 69013-1	5/26/89	Applied GeoSystems



Applied GeoSystems

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

FREMONT

IRVINE

HOUSTON

BOSTON
 SA

SACRAMENTO

CULVER CITY

SAN JOSE

November 19, 1990 69013-4 1114ssry

Mr. Scott Seery Alameda County Health Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Subject:

Response to Alameda County Health Agency letter dated October 25, 1990

regarding ARCO Station 2152, 22141 Center Street, Castro Valley, California.

Mr. Seery:

This letter, written on ARCO's behalf, is a response to your letter to ARCO, dated October 25, 1990, regarding frequency of ground-water monitoring of wells MW-1 through MW-4 at the subject site. The initial sampling of these wells on June 25 and 26, 1990, indicated low levels of TPHg and BTEX (below regulatory guidelines) present in the ground-water beneath the site. On September 26, 1990, we performed the third quarter 1990 monitoring at the site. The results of the third quarter 1990 laboratory analyses of water samples from wells MW-1 through MW-4 indicate that concentrations of TPHg and BTEX in these wells are below the laboratory detection limit (50 and 0.05 ppb respectively).

Because very low or nondetectable levels of TPHg and BTEX have been reported in the wells at the site both times they have been sampled, ARCO will perform quarterly ground-water monitoring at this site to evaluate trends in TPHg and BTEX concentrations and changes in ground-water gradient with time. We request that you postpone your requirement for three consecutive monthly ground-water sampling events until such a time levels of TPHg and or BTEX necessitate further investigation in the wells at the site. We expect to begin monthly ground-water level measurements at the site in December 1990. A copy of our report, Environmental Subsurface Investigation addressing items 1 through 6 in your letter referenced above, will be sent to you by November 19, 1990.

If you have any questions or comments, please call me at (408) 264-7723.

Sincerely,

Steve Bittman Assistant Project Geologist

Greg Barclay
Branch Manager

cc: Mr. Kyle Christie (Arco Products Company)

ALAMEDA COUNTY HEALTH CARE SERVICES

> **AGENCY** DAVID J. KEARS, Agency Director

Certified Mailer # P 062 128 311

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

October 25, 1990

Mr. Kyle Christy ARCO Products Company 2000 Alameda de las Pulgas P.O. Box 5811 San Mateo, CA 94402

REVIEW OF PRELIMINARY SITE ASSESSMENT REPORT; ARCO STATION #2152, 22141 GROVE WAY, CASTRO VALLEY, ALAMEDA COUNTY

Dear Mr. Christie:

This Department is in receipt and has completed review of the Applied GeoSystems (AGS) report entitled, "SUMMARY REPORT, Third Quarter 1990", submitted on October 15, 1990. This report documents work performed during the second and third quarter of 1990 at the referenced site.

The noted AGS report indicates that between June 12 and 19, 1990 four (4) ground water and two (2) vapor wells were installed at the referenced site. Soil samples collected during advancement of the borings were analyzed for fuel hydrocarbon constituents. Water samples were collected from monitoring wells MW-1 through MW-4 (borings B-4 through B-7) on June 26 and September 26, 1990 and subsequently analyzed. The initial samples collected June 26 showed elevated levels of target compounds in three of the four wells sampled; samples collected September 26 showed non detectable (ND) concentrations in all wells sampled.

During this Department's review, several areas requiring clarification or the submittal of supplemental information were identified, as follows:

- Driller's logs associated with borings advanced during June 1990 are not provided. Well construction diagrams illustrating such items as: the depth and diameter of wells; casing type and diameter; depth and type of seal; and, screen interval, filter pack material, and slot size are also not provided. Such well logs and construction diagrams must be submitted;
- Provide groundwater gradient maps and calculations based upon depth-to-ground water soundings collected during the June and September 1990 sampling events. The data presented in the noted gradient maps must be based upon the initial well elevation survey to an established or designated datum, to the accuracy of 0.01 foot, and converted to elevations above mean sea level (MSL). Describe surveying methods;

Mr. Kyle Christie RE: 22141 Grove Way, Castro Valley October 25, 1990 Page 2 of 3

- 3) Copies of original laboratory reports and chain-of-custody forms are not provided. Submit copies of these documents;
- 4) Quality control/quality assurance (QA/QC) samples appear (by their absence in the report) not to have been analyzed. All sampling events must include an adequate number of QA/QC samples, which may involve some combination of trip, field or sampler blanks, and spike samples. Laboratory reports must provide the results of the analyses of such samples;
- 5) <u>Discuss</u>: criteria for the selection of particular soil samples collected during boring advancement and submitted for analyses; water level measurement procedures; methods for free product measurement, and observation of sheen and odor; well development procedures and documentation supporting the adequacy of such development; well purging procedures; disposal/storage plans for purged formation water and soil cuttings; sample collection procedures; any unusual conditions encountered, or observations, made during drilling and/or ground water sampling; etc., etc.;
- 6) <u>All</u> reports are to be under seal and signature of an appropriate California-certified professional (i.e., geologist or civil engineer).

The noted information is to be submitted within 15 days, or by November 9, 1990. Without such information, the complete interpretation of the data presented in this and subsequent reports is difficult, as is the issuance of recommendations from this Department.

At this time, and in addition to requests made above for the submittal of supplementary information, the following tasks must also be performed following the protocol stated herein:

- 1) Water levels of <u>each</u> well must be measured and recorded monthly for the next year, **beginning October 1990**, and then quarterly thereafter. Such data is to be tabulated and presented on ground water gradient maps in subsequent quarterly reports;
- 2) All wells are to be sampled monthly for the next two months, beginning October 1990. Therefore, sampling must occur during late October and late November 1990 which, together with September's sampling event, will provide data for three consecutive months. The monthly sampling frequency may be reduced to quarterly after this three month period provided the concentrations of target compounds remain nondetectable (ND);

Mr. Kyle Christy

RE: 22141 Grove Way, Castro Valley

October 25, 1990

Page 3 of 3

3) Summary reports are to be submitted <u>quarterly</u> to this Department and the RWQCB for the duration of this project, as designated by final "sign off" by the RWQCB. Such quarterly reports are to detail work performed during the reporting period, and are due the first day of the second month of each subsequent quarter (i.e., February 1, May 1, August 1, and November 1). The next quarterly report is due February 1, 1991 and must document activities performed during the 4th quarter of 1990.

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267(b). Failure to respond or a late response could result in the referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil penalties to a maximum of \$1,000 per day. Any extensions of stated deadlines, or the modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB.

Should you have any questions regarding the content of this letter, please contact me at 415/271-4320.

Sincerely,

Scott O. Seery

Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health Edgar Howell, Chief, Hazardous Materials Division Gil Jensen, Alameda County District Attorney's Office Howard Hatayama, DHS

Lester Feldman, RWQCB PS Form 3809. June 025

Bob Bohman, Castro Val:

Steve Bittman, AGS

files

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Arco Station #2152 Center Street Castro Valley

memo to file:

9-4-90

Steve Bittman of Applied GeoSystems (tGS) spoke with me foday re: The referenced site. the indicated that AGS: initial report won't be ready until about another month. Apparently, AGS is swamped. This report will document work done during the initial installation of vapor and H2O wells at The site during June (?) 1990.

I informed Mr. Bittman That groundwater elevation determinations must occur monthly for the next year, and that, minimally, the samples are to be collected monthly for the first quarter (3 mos.). The baginning date for such sampling/measuring is September 1, 1990, Therefore, the first year of monthly the determinations will end Sept. 1, 1991.

202

May 31, 1990

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

Mr. Steven Bittman Applied GeoSystems, Inc. 3315 Almaden Expressway, Suite 34 San Jose, CA 95118

RE: PRELIMINARY SITE ASSESSMENT WORKPLAN PROPOSAL; ARCO STATION #2152, 22141 CENTER STREET, CASTRO VALLEY

Dear Mr. Bittman:

We are in receipt and have completed review of the May 14, 1990 Applied GeoSystems, Inc. (AGS) addendum, as submitted under cover dated May 15, 1990, to the April 1, 1990 workplan proposal for the investigation of subsurface contamination at the referenced site. This Department has accepted the scope of the current phase of work at this site as amended. However, please be certain that stockpiled drill cutting sampling protocol is consistent with that required by the State DHS and RWQCB for proper characterization of soils prior to disposal.

We understand that field activities associated with this phase of the site investigation are scheduled to begin in early June 1990. We will expect the submittal of a report documenting the results of the noted investigation within 30 days of the completion of this phase of work at this site.

Should you have any questions, please call me at 415/271-4320.

Sincerely

Scott O. Seery

Hazardous Materials Specialist

SOS:sos

CC: Rafat A. Shahid, Assistant Agency Director, Department of Environmental Health Edgar Howell, Chief, Hazardous Materials Division Gil Jensen, Alameda County District Attorney's Office Howard Hatayama, DHS Lester Feldman, RWQCB Bob Bohman, Castro Valley Fire Department Kyle Christie, ARCO Products Co. files May 3, 1990

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

Mr. Steve Bittman Applied GeoSystems 3315 Almaden Expressway, Ste. 34 San Jose, CA 95118

RE: PRELIMINARY SITE ASSESSMENT WORKPLAN PROPOSAL; ARCO STATION #2152, 22141 CENTER STREET, CASTRO VALLEY

Dear Mr. Bittman:

This letter is in response to this Department's review of the April 1, 1990 Applied GeoSystems (AGS) workplan proposal for the investigation of subsurface contamination at the referenced site, as submitted under AGS cover dated April 10, 1990. The noted workplan may be approved for this stage of the site assessment provided the following issues are resolved or clarified to the satisfaction of this Department:

- 1) Submit a Site Safety Plan. Reference is made to an AGS Site Safety Plan on page 19 of the April 1 proposal, but such a plan was not provided. Please be certain that the proposed Site Safety Plan adheres to guidelines specified under Part 1910.120(i)(2) of 29 CFR;
- 2) Please discuss how the proposed vadose zone wells will be used following their construction in borings B-8 and B-9. Describe where the screened or slotted interval will be placed in each boring in relation to the native soil/ backfill interface at the bottom of the tank excavation;
- 3) Submit typical groundwater and vadose well schematic construction diagrams;
- 4) Please discuss field sample QA/QC protocol;
- 5) Please discuss boring abandonment procedures; and,
- 6) Please discuss the storage and disposal of formation water generated as a result of well development and purging.
 Also, indicate how drill cuttings will be properly characterized and disposed.

Please submit, in a timely fashion, a response which adequately addresses the previous list of items. This submittal may be in the form of an addendum to the April 1 proposal. Additionally, please submit a copy of your response to the RWQCB (Attn: Lester Feldman).

Mr. Steve Bittman

RE: Arco Station #2152, 22141 Center Street

May 3, 1990 Page 2 of 2

Should you have any questions, please call me at 415/271-4320.

Sincerely,

Scott Seery

Hazardous Materials Specialist

SOS:sos

CC: Rafat A. Shahid, Assistant Agency Director, Alameda County
Department of Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Howard Hatayama, DHS
Lester Feldman, RWQCB
Bob Bohman, Castro Valley Fire Department
Kyle Christie, Arco Products Co.
files



TRANSMITTAL

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

TO:	MR. SCOTT SEERY ALAMEDA COUNTY	EPARTMENT OF	DATE: 4/27/90
- -	ENVIRONMENTAL HI 80 SWAN WAY, SU OAKLAND, CA 940	EALTH ITE 200	PROJECT NUMBER: 69013-3 SUBJECT: CHECK#286 for \$831.00
FROM:		IST	
WE ARE	SENDING YOU	XX Attached	[] Under separate cover via the following items:
ſ] Shop drawings	[] Prints	[] Reports [] Specifications
ſ] Letters	[] Change Ord	ders XX CHECK#286 FOR \$831.00
COPIE	ES DATED	NO.	DESCRIPTION
			CHECK FOR \$831.00 (REVIEW FEE)
			1
			1
THESE A	RE TRANSMITTEL	as checked below	ν .
[] Fo	r review and commer	t [] Approved as	s submitted [] Resubmit copies for approval
[] As	requested	[] Approved as	noted [] Submit copies for distribution
[] Fo	r approval	[] Return for c	corrections [] Return corrected prints
[] Fo	r your files	[]	
REMAR	KS:		~
Conince 1	- 1.65		
copies: 1 i	to AGS project file no	<u>69013-3</u> ARCHIVE	SJ READER'S FILE

MEMO to file:

4-3-90

I spoke with Kyle Christie of Arco today re: the submittals of final closure: PSA proposal reports for above site. He said that these will be submitted by next week along with \$831 to cover costs.

505

UST LEA SITE UP		Date of Last Review/Update	October 15, 1990	Current Date	January 15, 1990
SITE IDI	ENTIFICA	TION			
Name	ARCO S	Service Station 2152		Case No.	
Address		Center Street			
	Stre	et Number	Street		
	Castro \				94546
•		City		0.1	ZIP Code
County	Alamed				stance <u>Gasoline</u>
Local Age			vironmental Health Department		
Regional I	Board _	Regional Water Qu	ality Control Board		
LEAD ST	TAFF PEF	RSON .	ACEHD - Scott Seery		
CASE T	YPE				
	Undeterm		Soil Only Ground W	ater	Drinking Water
STATUS		cates when case mov	ed into status)		
	No Action			.	
		ig Confirmed ry Site Assessment V	Jarlenian Submitted	^ .	
		ry Site Assessment U	•		
		Characterization		n	
	Remediat	ion Plan		-	
		Action Underway		Date	
		edial Action Monitori	•	 -	
		erred to Regional Boa		_	
	Case Clos	erred to Dept. of Heal sed	I(II Services		
REMEDI. ACTION:	AL				
Installation	of 2 vapor	extraction wells plan	ned for week of January 14, 1991.		
			*		`,
COMME	NTS				<u> </u>
in the prev	ious quarte	r ARCO performed o	nsite investigation for assessment of possible	soil and/or grou	und-water contamination.
			groundwater does not contain hydrocarbon co		
			quarter of 1991. ARCO is currently monitorin		
	ed during to	tte mat early second	quarter or 1001. Alloo is culterity monitorin	g water levels in	•
quarterly.					a ^b
Please refe	er to the att	ached page for listing	g of previously submitted reports which docur	nent site history.	**
RESPON	ISIBLE PA	ARTY IDENTIFICA	ATION (Only if newly discovered or changed))	
Name			-		
Contact				Phone	(
Address	·			_	-
	Stree	et Number	Street		,
•	<u>_,</u>	City	State		ZIP Code

USTARCO.FRM/12/90/ssj

Cerified Mailer #P 833 981 262

December 26, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 30 Swan Way, 9m. 200 Oakland, CA 94621 415)

Mr. Steve Welge Atlantic Richfield Co. 2000 Alameda de las Pulgas P. O. Box 5811 San Mateo, CA 94402

RE: FINAL CLOSURE REPORT, SITE ASSESSMENT PROPOSAL; ARCO STATION #2152, 22141 CENTER STREET, CASTRO VALLEY

Dear Mr. Welge:

This letter is written in the wake of several phone calls from this office to you and your colleague, Ron Miles, regarding the submittal of a final report documenting the closure of five (5) underground fuel storage tanks (UST) in August 1989, and the request for a site assessment proposal for the investigation of subsurface contamination at the referenced site.

As you may recall, all tanks were removed from the referenced site as of August 18, 1989. Excavation of the former tank pit, piping runs, and dispenser islands continued through the end of August, culminating with the installation of four (4) new USTs on September 1, 1989. A final inspection of the UST leak detection system occurred on October 20, 1989. This station has since been operating.

The Alameda County Department of Environmental Health requires specific steps to be followed in the enforcement of the State Underground Storage Tank Laws and Regulations pursuant to Chapter 6.7 of the State Health and Safety Code and Title 23, California Code of Regulations. One such requirement is that a final report documenting all UST closure activities be submitted within 60 days of the completed closure. Said report would include, but not be limited to, the following elements:

- 1) Chain of Custody Sheets for all laboratory samples;
- 2) Copies of the original, signed Laboratory Reports;
- 3) Summary of laboratory results;

Mr. Steve Welge RE: Arco Station #2151 22141 Center St. Castro Valley December 26, 1989 Page 2 of 3

- 4) Copies of TSD-to-Generator waste disposal receipts/manifests;
- 5) Maps and figures depicting sample collection localities, structures, streets, etc.; and,
- 6) A discussion interpreting what environmental impact, if any, there has been upon the site, and recommendations for further work, if required.

To date, such a final report has not been submitted.

Further, initial field observations made during closure substantiate that a release of product had occurred at this site. Verbal reporting of laboratory analysis results of soil samples collected by the Applied Geosystems geologist overseeing the project confirmed that latent contamination up to 3800 ppm of total petroleum hydrocarbons as gasoline (TPH-G) still remain at a depth of approximately 22 feet. Contamination of this magnitude verifies, minimally, that the site has experienced a "confirmed release," according to the San Francisco Bay Regional Water Quality Control Board (RWQCB) fuel leak criteria.

As a result of this site's "confirmed release" status, additional investigative work must be performed to further define the extent of vertical and lateral impact upon groundwater and soils resulting from the noted contamination. The information gathered by this investigation must be used to determine an appropriate course of action to remediate the site. This preliminary site assessment should be conducted in accordance with the RWQCB Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks. The major elements of such an investigation are summarized in the attached Appendix A.

In order to proceed with a site investigation, you should obtain professional services from a reputable engineering/geotechnical consulting firm. The responsibility of your consultant is to submit for review a proposal outlining planned activities pertinent to meeting the criteria broadly outlined in this letter and the attached Appendix A. Once the preliminary site assessment has been completed, a technical report summarizing site related activities, conclusions and recommendations must be submitted to this office and the RWQCB. All reports and proposals must be submitted under seal of a California-Certified Engineering Geologist, California-Registered Geologist or California-Registered Civil Engineer.

Mr. Steve Welge RE: Arco Station #2151 22141 Center St. Castro Valley December 26, 1989 Page 3 of 3

Please submit a Preliminary Site Assessment proposal within thirty (30) days, and the final Closure Report within fifteen (15) days, of the date of this letter. Accompanying the site assessment proposal must be a check for an additional \$831 to help defer the cost of our review of this plan and our oversight of the remediation process. This check should be made out to the County of Alameda. A copy of this proposal should also be sent to the RWQCB (Attn: Lester Feldman) for their review.

Should you have any questions, please call the undersigned at (415) 271-4320.

Sincerely,

Scott O. Seery

Hazardous Materials Specialist

SOS: mam

Enclosure

cc: Rafat A. Shahid, Assistant Agency Director, Alameda County Department of Environmental Health

Lester Feldman, RWQCB

Bob Bohman, Castro Valley Fire Dept.

Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection Division

Mike Hood, Alameda County Building & Inspection Department Ron Miles, Arco

Steve Bittman, Applied Geosystems

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May 24, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621 (415) 271-4320

Mr. Steve Welge Atlantic Richfield Company 2000 Alameda de las Pulgas P.O. Box 5811 San Mateo, CA 94402

RE: TANK CLOSURE APPLICATION, ARCO #2152, 22141 CENTER STREET, CASTRO VALLEY

Dear Mr. Welge:

Our office has completed a review of the tank closure plan dated April 24, 1989 for the referenced facility as submitted by Robert H. Lee & Associates. The following items must be addressed prior to the issuance of this department's approval of these plans:

- 1. Provide the EPA Waste Generator Identification Number for this site. (Item 5)
- 2. Provide the name, address and phone number of the prime contractor engaged in tank removals. Indicate the contractor's license number and license type. (Item 6)
- 3. The total number of tanks at this facility is six (6) according to tank registration forms currently on file. This is contrary to information supplied in the tank closure application which identifies three (3) tanks. (Item 9)
- 4. Indicate the State registered hazardous waste transporters and TSD facilities, and provide all requested information. (Item 11)
- 5. Provide the name, address and phone number of the company retained to collect samples. (Item 12)
- 6. Provide assurance that a minimum of two (2) confirmatory soil samples will be collected from beneath each tank, one sample from each end, at the native soil/backfill interface. Include proposed sampling protocol for soil <u>and</u> water sample collection if groundwater is present in the tank excavations. Refer to RWQCB guidelines. (Item 13)
- 7. Provide a brief description of tank and/or pipe leak history. Present application indicates that no leaks have occurred in the past. (Item 14)
- 8. Provide the name, address, phone number, and State Certification Number for the laboratory contracted for sample analysis. (Item 16)

Mr. Steve Welge UNOCAL Corporation

RE: 18950 Lake Chabot Rd.

Castro Valley May 24, 1989 Page 2 of 2

- 9. Provide a summary of sample preparation and analysis methods for soil and water samples to be collected beneath and/or adjacent to the fuel and waste oil tanks. Please be specific. These tests and preparation methods must reflect the RWQCB's Recommended Minimum Verification Analyses for Underground Tank Leaks, Table #2, October 6, 1988 revision (attached). (Item 17)
- 10. Submit a site safety plan. Please reference the February 1989 closure plan instruction sheet, Item 3, issued by this agency (enclosed). (Item 18)
- 11. Provide a copy of the Workman's Compensation Certificate and the name of the insurer. (Item 19)
- 12. Provide an abbreviated plot plan to be kept together with the closure form, so that the tank installation plans may be kept separate. (Item 20)
- 13. Please have prime contractor sign and date the amended application.

Please respond to the above list of items through the submittal, <u>in triplicate</u>, of an amended tank closure plan. Should you have any questions, please call Scott Seery, Hazardous Materials Specialist, at 415/271-4320.

Sincerely,

Rafat' A. Shahid, Chief

PLCB. CL

Hazardous Materials Division

RAS:SOS:mam

cc: Ziaga Gianino, Robert H. Lee & Associates

James Walker, Arco Station #2152

Bogni Associates

Perry Maraftabi, Alameda County Building and Inspection Dept.

Bob Bohman, Castro Valley Fire Dept.

Scott Hugenberger, RWQCB

Scott Seery, Alameda County Hazardous Materials Division

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Enclosures



April 10, 1989 HI: 45 Project No. 330-03.01

Mr. Scott Seery Alameda County Public Health Services Hazardous Materials Section 80 Swan Way, Suite 200 Oakland, CA 94621

Subject:

ARCO Station #2152 22141 Center Street Castro Valley, CA 94546

Dear Mr. Seery:

Enclosed is the Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report for the subject ARCO Petroleum Products Company Station. Please distribute the report as noted in the instructions on the reverse side of each form.

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

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.

Tina Berry Staff Geologist

enclosure

cc: "Kyle Christie, ARCO Chris Winsor, ARCO

	2000 Alameda de San Mateo, CA 94	las Pulgas Date: /2//4/89 403
To:	Suit SE	zr/
Fron	n: Elaine J. Lavine	SM 255 ph 415 571 2439
	Approval	89 DEC 20
	Handling	STEVE WELCE ASKED ME TO
	Note	
	Note and return	FORWARD THIS REPORT TO
	Per your request	(/
	Your comment	You.
	Your information	
	Your signature	
	Your file	
	1	

[-	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT					
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~:		YES X NO	YES X NO	REPORTED THIS INFORI	MATION TO LOCAL OFFICIALS	PURSUANT TO SECTION 25180.7 OF
		ORT DATE CASE			~~~	
L	0,,	A _M 1 _d 0 _d 8 _v 9 _v	PHONE	SCHED	SIGNATURE As Age	DATE
	İ	Tina Berry	+	8) 984 - 6536	_ Ima (
	<u> </u>	REPRESENTING X OWNER/OPERATOR	REGIONAL BOARD	COMPANY OR AGENCY N		7
	REPORTED BY	LOCAL AGENCY THER	1200.012	Pacific Er	nvironmental	Group, Inc.
	¥	ADDRESS				
1		1601 Civic Center Dr., S	Ste. 202	Santa C	lara	CA 95050
<u></u>		NAME		CONTACT PERSON		PHONE
9	≥	ARCO Petroleum Products (CO. UNKNOWN	Mr. Kyle (Christie	415) 571-2434
Ş	PARTY	ADDRESS	a)70 G M-4		C3 04403
2		2000 Alameda de las Pulga	is, Ste. 2		.eo	CA 94402
	į	FACILITY NAME (FAPPLICABLE)	: 3	James A. V	radict	PHONE #15) 503 3060
Ì	3	ARCO Service Station #21	02	James A.	IGIVET	(#15) 581-1268
ı	BITE LOCATION	ADDRESS 22141 Center Street_		Castro Va	alley A	lameda 94546
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-	<u> </u>	LOCAL AGENCY AGENCY NAM		CONTACT PERSON		PHONE
N N	SES	Alameda Co. Public Health	n Service	Mr. Scott	Seery	4 15) 271-4320
ä	AGENCIES	REGIONAL BOARD				PHONE ACA OCCO
2		San Francisco Bay Region		Mr. Don I	Daike	(±15) 464-0838
Ę	3	(1)	NAME			QUANTITY LOST (GALLONS)
15	Ž.	Gasoline (Unleaded)				X UNKNOWN
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	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT				
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REP	ORT DATE CASE#	THE HEALTH AND SAFTY CODE.			
0,	4 4 1 d 0 d 8 y 9 y	SIGNED DATE			
	NAME OF INDIVIDUAL FILING REPORT PHON	signature As, Agent for ARCO			
<u>_</u>	Tina Berry (408	3) 984-6536 Try Privil			
9	REPRESENTING X OWNER/OPERATOR REGIONAL BOARD	COMPANY OR AGENCY NAME			
REPORTED BY	LOCAL AGENCY OTHER	Pacific Environmental Group, Inc.			
皇	ADDRESS				
	1601 Civic Center Dr., Ste. 202	Santa Clara CA 95050			
щ	NAME	CONTACT PERSON PHONE			
RESPONSIBLE PARTY	ARCO Petroleum Products Co. UNKNOWN	Mr. Kyle Christie (415) 571-2434			
P. P. P.	ADDRESS	3			
8	2000 Alameda de las Pulgas, Ste. :	218 San Nateo CA 94402			
	FACILITY NAME (IF APPLICABLE)	OPERATOR PHONE			
l z	ARCO Service Station #2152	James A. Walker (\$15) 581-1268			
SITE LOCATION	ADDRESS				
S S	22141 Center Street	Castro Valley Alameda 94546			
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	Grove RESIDENTIAL	OTHER OTHER			
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(ENTING NCIES	Alameda Co. Public Health Service	Mr. Scott Seery (415) 271-4320			
MPLEMI	REGIONAL BOARD	PHONE 435 466 0039			
₹ `	San Francisco Bay Region	Mr. Don Dalke #15, 464-0838			
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O BY	REPRESENTING OWNER/OPERATOR REGIONAL BOARD COMPANY OR AGENCY NAME
REPORTED BY	DOCALAGENCY OTHER Arco Products Company ADDRESS
	2000 Alameda de las Pulgas, San Mateo, CA 944103
SIBLE	Arco Products Co. Dunknown Kyle Christie (415) 571-2434
RESPONSIBLE PARTY	ADDRESS 2000 Alameda de las Pulgas, San Mateo, CA 94403
	FACILITY NAME (IF APPLICABLE) OPERATOR OPERATOR PHONE
ATION	Arco Station 2152 James A. Walker Missel-1268
TE LOCATION	22141 Center Street, Castro Valley, CA 94546 COUNTY Alamedaza
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S S	LOCAL AGENCY AGENCY NAME CONTACT PERSON PHONE
IMPLEMENTING AGENCIES	REGIONAL BOARD (418 874-7237)
	J.F. Bay R.W.Q.C.B. Greg Zentner (415) 464-0804
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<u>s</u>	
COMMENTS	Tests showed vapor/vent line leaks only. Repairs will be made and retest results submitted.
8	

QUARTERLY SUMMARY REPORT Alameda County April 1989

ARCO Service Station No. 2152 22141 Center Street Castro Valley, California

BRIEF HISTORY

- March 10, 1988, a vapor/vent line leak was detected in an unleaded gasoline system during annual tank testing at the site. The system was repaired.
- April 6, 1988, the system passed retest. An underground Storage Tank Unauthorized Release (Leak) Report and results of tank testing were sent from Brown and Caldwell to Alameda County Division of Environmental Health on June 7, 1988.
- Per Letter LG-43 (State Water Resources Control Board), ARCO plans no further work at this site at this time.

DEPARTMENT OF ENVIRONMENTAL HEALTH

40. 27M Street The Street These plans have been reviewed to do found to be accorded to the season shift of the

l.	Business Name ARCO Facility #2152
	Business Owner James A. Walker
2.	Site Address 22141 Center Street
	city <u>Castro Valley</u> zip <u>94546</u> Phone (415) 581-1268
3.	Mailing Address <u>Same</u>
	City Zip Phone
4.	Land Owner Bogni Assoc.
	Address P.O. Box 4258 city, State Fremont, CA Zip 94539
5.	EPA I.D. No. CAL 000 009 866
6.	Contractor Paradiso Const.
	Address 9220 6 Street
	City Oakland, CA 94603 Phone (415) 562-5511
	License Type A.B. G-G1 & D-40 ID# 259820
7.	Other (Specify) Arch./Eng. Consultants - R.H. Lee & Assoc., attn: Zaiga Gianino
	Address 900 Larkspur Landing Circle #125
	City Larkspur, CA 94939 Phone (415) 461-8890

8. Contact Person for Investigation
Name Steve Welge Title ARCO Const./Field Engineer
Phone (415) 770 - 9489
9. Total No. of Tanks at facility 5
10. Have permit applications for all tanks been submitted to this office? Yes [><] No []
11. State Registered Hazardous Waste Transporters/Facilities
a) Product/Waste Tranporter
Name H. & H. Ship Service (Env. Services) EPA I.D. No. CAD 004 771 Vob
Address 220 China Basin
city San Francisco State CA Zip 94107
b) Rinsate Transporter
Name same as item a) EPA I.D. No.
Address
CityStateZip
c) Tank Transporter
Name Same as item a) EPA I.D. No.
Address
City State Zip
d) Contaminated Soil Transporter
Name Dillard Trucking Inc. EPA I.D. No. CAD 981692809
Address Route 1, Box 73 Reg. Hauler # 1715
city Byron State CA Zip 94514
12. Sample Collector
Name Applied Geo Systems attn: Greg Barclay
company Applied Geo Systems
Address 3315 Almaden Expressway, Suite 34
City San 1050 State (A Zip 95118 Phone (408) 264-77

1

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location · & Depth
Capacity (4) 6,000 gallon 6 (1) 12,000 gallon tank	Historic Contents (past 5 years) Gasoline Stored Only (Super Unleaded, Regular Unleaded & Regular Leaded Fixels)		ARCO will excavate all Contaminated soil & backfill) to a depth of 18 to 20 feet, at this depth soil samples will be callected at the boation under excavated tanks per RHQCB guidelines. ARCO letter (dated 6.6.89) pristie -ARCO env. eng.
		·	
If yes, indication as high. 15. NFPA me	a 8.0 gal/hr. In thods used for render describe. 16 lbs. of describe.	Recent (Mar 14 am ms in tanks 1, 2 no tanks have ring tank inert?	Since been removed from services NO []
•	ories oplied <i>Geo Systems</i> 43255 Mission Blvd.		-
city <u>fr</u>	<u> </u>	State <u>CA</u>	Zip 94539

17. Chemical Methods to be used for Analyzing Samples

Contamin Sought	S	PA, DHS, or ample Prepa ethod Numbe	ration	EPA, DHS, o Other Analy Number	
TPH	Ef	PA 5030		EPA 8020	
BETX	EF	PA 5030		EPA 8020	
	ed and analyzed by plogy. Analyses inc EPA Method 8020 Waste oil soil samp 8015 modified with and grease by Met	y DOHS-certific cluded TPH as with extraction oles will be an hextraction by thod 503D&E, A Method 824 Cr, Pb. and Zn,	ed labs using grand I grand I according to alyzed for TPI y EPA method Chlorinated hy 0, and if required to the second control of th	s 5030 and 3550, oil vdrocarbons and BETX red atomic adsorb-	

- 18. Site Safety Plan submitted? Yes No []
- 19. Workman's Compensation: Yes ⋈ No []

Copy of Certificate enclosed? Yes ⋈ No []

Name of Insurer R.C. Fischer & Company Insurance

- 20. Plot Plan submitted? Yes 🔀 No []
- 21. Deposit enclosed? Yes Mo []
- 22. Please forward to this office the following information within 60 days after receipt of sample results.
 - a) Chain of Custody Sheets
 - b) Original Signed Laboratory Reports
 - c) TSD to Generator copies of wastes shipped and received
 - d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are soley the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor	
Name (please type) Mary (20NZA/E5	<u> </u>
Signature Mary Amzales	
Date 6-6-89	
Signature of Site Owner or Operator	3
Name (please type) Steve Welge - ARCO Construction/Field	Engineer
Signature Abre L. Welge	
Date 6.6.89	

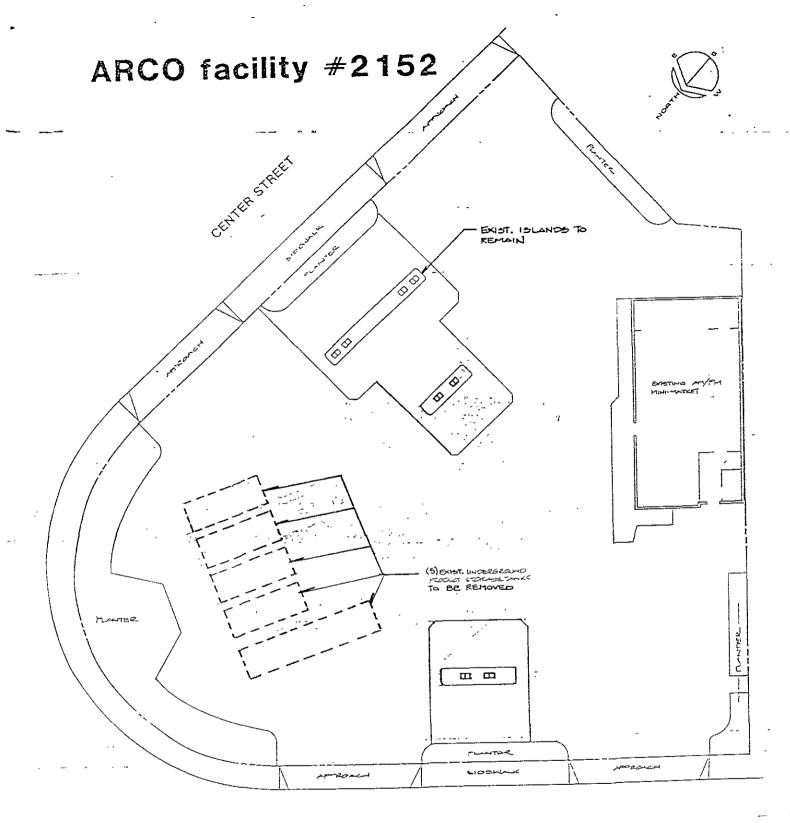
NOTES:

- 1. Any changes in this document must be approved by this Department.
- 2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
- 3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
- 4. A copy of your approved plan must be sent to the landowner.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)
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28 x - 1 88			
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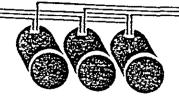
GROVE WAY

TANK & PIPING REMOVAL

22141 Center Street Castro Valley, CA 94546

GENERAL & PETROLEUM CONTRACTORS





UCENSE NO. 259820 P.O. BOX 6397 9220 "G" STREET OAKLAND, CA 94603 (415) 562-5511

GENERAL

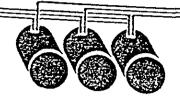
The company will furnish all safety equipment and tools to keep your place of work safe as possible. "use them".

Housekeeping: Keep the jobsite clear of scrap materials and debris especially near the trenches and excavations.

Barricades: The bulk of our work involves underground tanks and piping, so it involves trrenching and excavation and a good many sites are kept in operation; we also have to provide safety for the general public. Use an ample amount of barricades and trench covers so that customers that are trying to use the facility are aware of the hazard that exists. Be especially aware of children that come on the site to see what is going on, and keep them well away from the excavation and equipment, or better yet keep them off the site entirely.

GENERAL & PETROLEUM CONTRACTORS





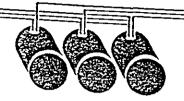
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PERSONAL PROTECTIVE EQUIPMENT

- EYE PROTECTION: When cutting or burning, chipping or breaking concrete, or anytime you are subjected to eye injury, wear your goggles or safety glasses.
- HEAD PROTECTION: When you are working in an area where you are . 2. subjected to falling objects or the site is a hard hat area.
 - BODY PROTECTION: 3. Clothing appropriate for the work must be worn.
- FOOT PROTECTION: Wear sturdy shoes appropriate to the work you are doing. When using a pavement breaker wear your toe protection
- HAND PROTECTION: When handling rough materials such as timbers, steel sheets, bars, and scrap; wear your gloves.
- HEARING PROTECTION: When using a pavement breaker or operating noisy equipment, use your ear protection.
- RESPIRATORY PROTECTION: 7. Respirators must be worn when working in a confined space where dangerous air contamination exists, when sand blasting where toxic material evolves or when welding where there may be toxic substances.

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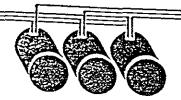
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EQUIPMENT

- Only trained or experienced employees may operate equipment. 1.
- Equipment operators must be sure other workers are clear before moving or operating this equipment. When changing buckets, be certain that the workers helping to change the bucket is clear before moving the boom. When using the boom for hoisting or moving equipment and or materials be sure the worker is clear before lifting or taking a strain on rigging.
- Don't use damaged slings or cables, if they are questionable, call the office for replacement.
- Avoid operations that expose employees to over head loads.

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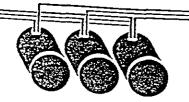
UCENSE NO. 259820
P.O. 80X 6397
9220 "G" STREET OAKLAND, CA 94603
(415) 562-5511

TOOLS

- Don't use tools and equipment that are not in good repair; notify the office of the repairs that are needed.
- 2. All power tools are to be grounded.
- 3. SKILL SAWS: Saw guard must not be blocked open.
- 4. AIR COMPRESSORS: Air tank must be drained often, safety valve must be popped daily, all hoses to have safety clasp, and don't disconnect under pressure.
- 5. LADDERS: Defective or unsafe ladders will not be used, they shall be repaired or scrapped.

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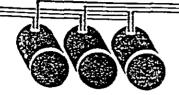
LICENSE NO. 259820 P.O. BOX 6397 9220 "G" STREET OAKLAND, CA 94603 (415) 562-5511

FIRE PROTECTION/PREVENTION

- SMOKING: No smoking on any service station site except in an approved area away from the islands and tanks.
- FLAMMABLE LIQUIDS: No sources of ignition are allowed in any work area where there is presence of flammable liquids, gasoling etc...
- FIRE EXTINGUISHERS: All trucks and heavy equipment are to be equipped with one 5 lb. A.B.C. extinguisher.
- Gasoline should not be used as a cleaning agent.
- No burning or welding should be done in an enclosed tank or vessel until it has been determined that there is no possibility of fire or explosion.
- A gas detection device is available, all persons should be familiar with this device and know how to use it.

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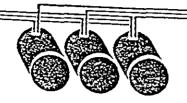
UCENSE NO. 259620
P.O. 80X 6397
9220 "G" STREET OAKLAND, CA 94603
(415) 562-5511

EXCAVATION

- 1. Prior to excavating, the location of underground utilities must be determined and utility owners must be notified. This function will normally be done by the office but if you are not sure; call the office, especially, if you are to excavate in the street or sidewalk area.
- 2. All excavations 5° or more in depth that are to be entered, must be sloped 3/4 to 1 foot or shored.
- 3. All excavation must be inspected and monitored for ground movement on a continuing basis.
- 4. There must be proper qualified supervision at all times during excavation.
- Safety provisions must be taken while installing and removing shoring, the work can be extremely dangerous if good practice is ignored:
- .6. Keep spoils well back 2' or more from the edge of all excavations.
- 7. Effective barriers and barricades are to be used around all excavations for your protection as well as others that may want to see the work going on. Keep all others not involved in the work well back from the excavations, especially children.
- 8. Watch for overhead power lines, keep at least 10' away from these conductors.
- 9. Trench covers: A facility that is to be kept in operation, as many are, set up barricades and cover trenches to reduce the possibility of a customer driving or walking into an open trench. When work is done for the day, insure that you leave the site in a safe condition.

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CONFINED SPACES

Before employees are allowed to enter confined spaces:

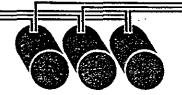
- Lines containing hazardous substances must be disconnected, blinded, or blocked.
- 2. The space must be emptied, flushed or purged.
- 3. The air must be tested for dangerous contamination or oxygen deficiency. Ventilation is required if testing reveals any

Working in a confined space where dangerous air contamination exists

- 1. Appropriate respiratory protection
- 2. Safety belt (or harness) protection.
- 3. One standby employee (with respirator).

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SOIL AND GROUNDWATER SAMPLING PROCEDURE Gasoline, Diesel and Waste Oil Tank Removal

Underground storage tanks require two soil samples per tank of 1000 gallon capacity or greater. Tanks of a smaller capacity require one sample per tank unless otherwise required by local agencies. Samples are collected at a depth of two feet below the tank backfill.

Soil samples from beneath gasoline storage tanks are analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline (low to medium boiling fraction) using EPA method 8020. Samples from beneath diesel fuel storage tanks are analyzed for TPH as diesel (high boiling fraction) using EPA methods 3550 and 8015.

If groundwater is encountered in a fuel tank pit, water sample is collected. The sample is collected in a glass VOA (Volatile Organic Analysis) vial, insuring that no head space remains in the vial. The vial is sealed with a Teflon-lined screw cap. Water from a gasoline tank pit is analyzed for TPH as gasoline and BTX using EPA methods 602 and 5030. Water samples from a diesel tank pit are analyzed for TPH as diesel and BTX using EPA methods 3510 and 8020.

Soil samples collected from beneath waste oil tanks are analyzed for TPH high boiling fraction, using EPA method 3550 and 8015; total oil and grease (TOG) using EPA extraction method 3550 and gravimetric determination method 8010 and 8020 or EPA method 8240. Groundwater samples collected are collected as described above and are analyzed for TPH, high boiling fraction using EPA methods 3510 and 8020, and volatile organic compounds using EPA method 6240.

The analysis for all soil and water samples are done by a state certified lab.

COIC CERTIFICATE OF INSURANCE

PRODUCER

R.C. FISCHER & COMPANY INSURANCE—SURETY BONDS

1220 Oakland Blvd., Suite #300 • P.O. Box 8101 Walnut Creek, California 94596-8101 Phone (415) 932-7823

If calling from Oakland - Phone (415) 839-3015

INSURED

Paradiso Construction Co. 9220 "G" Street

Oakland

CA

94603

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES	AFFORDING	COVERAGE

COMPANY LETTER

COMPANY LETTER

COMPANY

COMPANY F

LETTER

D

REPUBLIC INDEMNITY COMPANY

COMPANY LETTER

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

	TIONS OF SUCH POLICIES.						
co	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE	POLICY EXPIRATION	LIABIL	ITY LIMITS IN T	HOUSANDS
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	GENERAL LIABILITY				BODILY		
ĺ	COMPREHENSIVE FORM				INJURY	\$	\$
	PREMISES/OPERATIONS				PROPERTY		
	UNDERGROUND EXPLOSION & COLLAPSE HAZARD				DAMAGE	\$	\$
	PRODUCTS/COMPLETED OPERATIONS				Í		
	CONTRACTUAL				BI & PD COMBINED	\$	\$
	INDEPENDENT CONTRACTORS						
	BROAD FORM PROPERTY DAMAGE						
	PERSONAL INJURY				PERSO	NAL INJURY	\$
							
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DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

JOB: ALL CALIFORNIA OPERATIONS

CERTIFICATE HOLDER

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARIMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY OAKLAND, CA 94621

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND/UPON THE COMPANY, ITS, AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE)

10-2

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
470 - 27TH ST., RM. 322
OAKLAND, CA 94612
PHONE NO. 415/874-7237

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1.	Business Name ARCO fac.# 2152	_
	Business Owner James A Walker	_
2.	Site Address 22141 Center Street	
	city <u>Castro Valley</u> zip 94546 Phone (415) 581-1268	_
3.	Mailing Address Sawe	_
	City	_
4.	Land Owner Bogni Assoc.	
	Address P.O. Box 4258 City, State Fremont, CA Zip 94539	
5.	EPA I.D. No	_
6.	Contractor Not determined yet	_
	Address	_
	City Phone	_
	License Type ID#	
7.	Other (Specify) Robert H. Lee & Assoc. (Arch./Eng. Consultants) attn. Zaiga Giani	
	Address 900 Larkspur Landing Circle #125.	_
	City Larkspur, CA Phone (415) 461-8890	_

8.	Contact Person for Invest	igation:			
	Name Steve Welge - ARCO		Title Cons	t/Field engineer	
	Phone (415) 770 - 9489				
9.	Total No. of Tanks at fac	ility <u>3</u>			
10.	. Have permit applications				
	office? Yes	\bowtie	No []		
	State Registered Hazardou determined after general a a) Product/Waste Tranpor	contractor:		acilities	
	Name		EPA I.D.	No	
	Address		-	******	
•	City		State	Zip	
	b) Rinsate Transporter			,	
,	Name		EPA I.D.	No.	
	Address				
	City		State	Zip	
	c) Tank Transporter	-			
	Name		EPA I.D.	No	
-	Address				
	City		_ State		
	d) Contaminated Soil Tran	sporter			
	Name		EPA I.D.	No	
	Address		·		
-	City		•		
				•	
12.	Sample Collector				
,	Name				
	Company				
	Address				
	City	State	_ Zip	Phone	

- 2 -

13. Sampling Information for each tank or area

	ea	Material sampled	Location & Depth
Capacity (4)6,000 gal tanks	Historic Contents (past 5 years) Gasoline (Sup. Unl., Reg. Unl. & Reg. Leaded)	Soil, Ground Water if applicable	Each corner of tank excavation
If yes,	nks or pipes leaked in describe. thods used for render describe.	ring tank inert?	Yes Mo[]
	ories		
16. Laborat			•
•			
Name			

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
Total Petroleum Hydrocarbon Analysis	EPA 5020 or 5030	EPA 8020
Benzene, Tolvene & Xylene	EPA 5020 or 5030	EPA 8020
	<u>.</u>	

- 18. Site Safety Plan submitted? Yes Mo [] Refer to sheet 6 of plans
- 19. Workman's Compensation: Yes [] No []

 Copy of Certificate enclosed? Yes [] No []

 Name of Insurer Shall be provided by Contractor
- 20. Plot Plan submitted? Yes 🖂 No []
- 21. Deposit enclosed? Yes ⋈ No []
- 22. Please forward to this office the following information within 60 days after receipt of sample results.
 - a) Chain of Custody Sheets
 - b) Original Signed Laboratory Reports
 - c) TSD to Generator copies of wastes shipped and received
 - d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are soley the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor
Name (please type)
Signature
Date
Signature of Site Owner or Operator
Name (please type) Steve Welge, ARCO Construction Engineer
Signature Alexe L. Welge
Date 4.24.89

NOTES:

- 1. Any changes in this document must be approved by this Department.
- Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
- 3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
- 4. A copy of your approved plan must be sent to the landowner.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)
		-	
	-		
		-	
~ .			

TO: Local Oversight Program FROM: CIA SUBJ: Transfer of Elliqible Oversight Case site name: ARCO Station 2152 Address: 22141 Center St. city Casto Valsip 94546 DepRef remaining \$ 394 Closure plan attached? Y N DepRef Project #_____ STID #(if any) 3943 Number of Tanks: 5 removed? Y N Date of removal Aug 17,1989 Leak Report filed? Y N Date of Discovery 8-17-89 Samples received? Y N Contamination: Soil 4 GW Types: Avgas Jet <u>leaded unleaded</u> Diesel fuel oil waste oil kerosene solvents Petroleum Y N solvents Monitoring wells on site ____ Monitoring schedule? (Y) LUFT category 1 2 3 * H S C Briefly describe the following: Preliminary Assessment_____ Remedial Action_____ Post Remedial Action Monitoring

MW contain Proposed UES

Enforcement Action____

DATE: