

As stated above, ARCO is serious about doing whatever is practical to eliminate the Filter/Drive-Off problem. The removal of the dispenser fuel filter (WIX 10 Micron) was evaluated as an alternative. However, the fuel filter is considered essential in order to maintain superior quality control over the gasoline dispensed into customer vehicles. Also, on April 9, 1991 Tokheim stated that almost all major oil companies were currently specifying gasoline dispenser fuel filters as has been ARCO's practice for over 25 years. The following table summarizes the known occurrence rate of this problem in Alameda County:

<u>DATE</u>	<u>FACILITY</u>	<u>ESTIMATED GALLONS LOST</u>	<u>DATE OF WRITTEN REPORT</u>
05/06/89	2185	40 - 50	05/09/89
12/21/89	2035	1 - 2	12/21/89
04/04/90	2185	Unknown*	04/06/90
04/20/90	6206	Unknown*	04/26/90
06/19/90	6206	Unknown*	06/19/90
09/13/90	6206	<6	09/18/90
09/26/90	6041	3 - 5	09/27/90
03/19/91	0414	1	04/15/91**

who estimated?

* Unknown = too small to measure

** ARCO first became aware of product loss on 4/8/91.

→ what about event a week earlier?

→ 7 ~~app~~ similar releases at this site since ~~March~~ 1989
(D.R.F.A.)

ATTACHMENT C

4/17/91 WAC

DRIVE-OFF/DISPENSER FUEL FILTER PROBLEM

ARCO notes taken at the April 8, 1991 meeting with Alameda County indicate that during 1989, 1990, and 1991 there were 8 incidents of dispenser gasoline filter leaks associated with customer drive-offs with the dispenser nozzle still in the vehicle gasoline fuel receptical. ARCO reviewed it's release reports from 1987-1991 to obtain a more comprehensive review of this type of problem. ARCO's records indicate no such problem in 1987 and 1988.

Regarding the eight noted incidents, ARCO reported each incident when it occurred. In cases where the soil/material beneath a dispenser was contaminated (generally 5 gallons or less) --- one report indicated 40-50 gallons, ARCO also included what immediate clean-up action was taken and indicated on the reports that no further action was needed in five of the eight incidents. ARCO has never received a response from any agency on any of these release reports and therefore considered each incident "satisfactorily closed".

ARCO takes Alameda County's concern over the Filter Leak/Drive-Off problem seriously. Accordingly, beginning on April 8, 1991, ARCO's Engineering Manager checked on this problem with the Tokheim Corporation's engineering department, independant pump/tank contractors and ARCO field engineers. No one indicated any perception that this was a serlous or widespread problem as was the perception of the Alameda County's Agencies personnel. However, Tokheim engineering-personnel stated that the removal of an "in-line check valve" in their dispenser should reduce the gasoline leak problem associated with retail customer "drive-offs" by nearly 90%. Accordingly, on April 12, 1991, ARCO started testing the propensity of fuel filters to leak under "drive-off conditions" with Tokheim dispensers where the in-line check valve had been removed. This testing should be completed by April 22, 1991. If the results are positive, all in-line check valves in all ARCO owned dispensers in Alameda County will be removed by approximately May 10, 1991 (may vary somewhat due to Contractor availability).

731 W. McArthur Blvd.
Facility 4931

Oakland

G-R

- Free product identified in three of 12 wells installed in 1983. At present time the wells off-site do not indicate any of the plume has migrated off-site.
- Interim free product recovery consisted of weekly bailing of product from the wells from May 1986 to present. To date approximately 50 gallons have been recovered.
- An aquifer test was conducted on April 4-5, 1991 to identify the feasibility for an interim remediation system. Current interim recovery efforts will continue but will be enhanced through the use of dedicated product recovery pumps installed in onsite wells. The pumps will be installed in wells with FP following the submittal of a workplan and the receipt of the necessary agency approvals and all applicable permits. The workplan is anticipated to be submitted to the agencies on May 15, 1991.
- The interim product recovery system will be converted into an expanded final remedial system following the completion of further assessment and feasibility testing. Results from the interim recovery program will be used for design of any final system. A workplan will be prepared including assessment and feasibility testing for submittal to the agencies on May 15, 1991.

17601 Hesperian Blvd.
Facility 608

San Lorenzo

PACIFIC

- A product sheen which could not be measured was first identified in early 1988. A sheen was detected in three of seven onsite monitoring wells between 1988 and 1990. Free product was noted while drilling MW-5 in soils only. No free product is present in any of the wells at this time.
- An aquifer test was conducted in November 1989 and an extraction well was installed in July 1990. A workplan for additional remedial activities was submitted to ACHD on February 13, 1991 and approved on March 21, 1991.
- A sanitary sewer permit has just recently been obtained. The pumps will be installed in the extraction well following receipt of the necessary agency approvals and all applicable permits. The construction is scheduled to be completed and pumping to begin in mid June 1991.

7-9-91 (Mark Thompson) ARCO questions about sites

I NOV Dealers - Arco ask to be sent copies
(Mark said it's a reasonable request)
✓ * Talked to Ed (7-11-91) said I should write a
memo via Arco - letters of NOV to
cc Arco & copies of ^{ARCO's} inspection reports
to me so I could send them to Arco
representative (once a wk or ~~once~~ every 2 weeks
or once a month).

7/15/91
Mark Thompson

II 1260 Park St. Alameda -

- 1) May 1987 - waste oil tank removed. Contamination
of 2400 ppm motor oil, WHEN & HOW did we
learn of contamination?
- 2) 11/89 - tank leaked, failed precision test. WHEN & HOW
did we ~~know~~ learn of leak.
- 3) ~~From~~ violation list - old piping was not removed.
Arco was saying it was, Arco correct? What
was the basis of ~~that~~ that old piping was not removed?
- 4) Arco submitted Workplan 11/4/91, have we
responded to this?

copied Mark
Thompson
7/11/91

✓ III 909 Bluebell Drive Livermore -
contract dealer site

There are only 5 or 6 sites that Arco only
supplies the gas. Have you have any
progress of dealer since Arco told me?

785 E. Stanley Blvd. Livermore
Arco clams installed 1991
- report will be forthcoming. Any truth?

5131 Shattuck Oakland

- 1) Have quarterly summaries been submitted
- 2) ~~revisions~~ deficiencies regarding
precision testing.

7-15-91

Discussion with Mark Thompson

54

① 899 Lincoln Ave. Livermore

Phil Winter letter of 5/31/91 ask questions.
When Phil Winter's questions answered &
what developments have occurred?

② 1731 W. MacArthur Blvd. Oakland,

Before answering the questions see summary.

- a) We say approval to submit a phase recovery system was made, but it's unclear whether proposal, any workplans were submitted. Clarify this point.
- b) Anything new in our statement "County has been provided no information or a third quarter 1990 proposed remedial action plan has ~~been~~ been implemented?
- c) Have you rec'd or approved & or what do you think of 5/15/91 workplan to install pumps.
- d) Have you rec'd or approved & or what do you think of 5/15/91 workplan for assessment & feasibility.
- e) Arco says it contacted the agency to determine if it could defer testing from 1987-1988 & Arco said County agreed thru Ted Perrow. Arco said 2/88 to 10/89 testing occurred but something was said to Ed Howell 10/90 & something was rec'd 1/91, any info on these?

6707 Telegraph, Oakland 94609

1) 2 workplans submitted 5/15/91

General questions as to the workplans,
how are the workplans, are they approved,
what's the status?

7-18-91

(Mark's Thompson) Arcs Site Questions

Additional Questions:

I

1260 Park Ave. Alameda

1. In the violation summary - are the tanks permitted? & when?
2. New correspondence fr. Arcs "a product sheet etc could not be measured was identified at this site. As such, interim free product banking is not applicable". A workplan ^{was} submitted to the agency 1/91. For the purpose of defining the extent of free product & provide data from which interim recovery system will be based. Agency had not responded to workplan. Agency not responded until now July 3, 1991.

II

6407 Telegraph Ave Oakland 94609

Interim free product recovery banking terminated temporarily. Bec. no free product detected in the site wells. Workplan submitted 5/15/91 to conduct further assessment & feasibility testing to allow design of comprehensive remedial plan. No response from agency as of 7/2/91. Encroachment permitting for off site wells. initiated 6/24/91 w/ city of Oakland.

III 7249 Dublin Blvd.

Kavi said discrepancy in daily reconciliation & he gave SH the file.
Need to check or look into this issue either Kavi or SH.

IV 785 E. Stanley Blvd. Livermore,

Reports submitted to agency describing assessment of findings on 4/16/91.
Further assessment workplans to determine extent of groundwater problem, contamination

V 899 Lincoln Ave. Livermore,

Interim free product recovery boring temporarily terminated per. of lack of free product in site wells on 2/19/91. Workplan submitted to agency 5/19/91, etc incl. further assessment of feasible testing for purpose of monitoring interim program into final remedial system. Assessment workplan approved 5/31/91. Installation of 4 wells commenced on 6/28/91.

Is this accurate? adequate?

VI

731 W. MacArthur Blvd.

Interim product recovery boring on-going.
Aquifer test done 4/4/91 for purpose of evaluating
feasibility interim recovery system & gather
data for design of final remediation
system. Workplan submitted for approval
of installation of extraction pumps & site well
on 5/15/91. No response from agency. From to
date. An aquifer test performed 4/4/91 no
further assessment necessary for purpose of
designing final groundwater remediation
system. As such the workplan submitted
for approval on 5/15/91 for assessment &
feasibility testing was not necessary.

True?

6/19/91

John Meek's Letter 4/16/91

FP (KC) #2112

1260 Park St. Alameda - Submitted ~~4/26/91~~

waiting for approval of workplan
4 proposed - 3 vapor extraction wells &
5 GWS's.

FP (LS) #2035

1001 San Pablo Ave. Albany - Submitted by 4/26/91
and notified (3/20/90) of free product at 2 service
stations

FP (PE) #5387

20200 Kipling Blvd., Hayward ⁹⁴⁶⁰⁵

Ala. Co letter (3/19/90) free product
discovered. Workplan requested by
April 30, 1991.

FP (PS) #276

10600 MacArthur Blvd., Oakland ⁹⁴⁶⁰⁵
Submitted workplan 6/27/91.

FP (PE) #362

Hayward

29900 Mission Blvd., Hayward
Workplan submitted by 5/15/91

Letter report quarterly GWS monitoring quarterly
1990 (Date March 26, 1991) (PE)

FP (SB) #374

6407 Telegraph Ave., Oakland

Workplan submitted by 5/15/91 Yc - SH

FP (LS) # 601

412 Lemelling Blvd. San Leandro
Workplan submitted by 5/15/91 w/ L.S.
addendum to Juro
work plan

FP (GW
SH) # 771

899 Rincon Ave. Livermore
Workplan to submit by 5/15/91

FP (KC
B)
Inspection # 4494

566 Hegenslager Rd, Oakland
Workplan to submit by 5/15/91

FP (GW
SH) # 4931

431 W. MacArthur Blvd, Oakland
12 wells at site, 3 GWM's w/ FP.
workplan to be submitted 5/15/91

FP (PE) # 608

17601 Hesperian Blvd. San Lorenzo
7 GWMs
pumping of tract to complete
by mid June

replacement, 2 soil samples were ND. We suspect GTI report contains evidence of leak which Arco has concealed until leak report filed. Failure to notify of discovery of unauthorized release.

H/S 25295(a)
H/S 25299(a)(4)
H/S 25299(b)(4)
H/S 25299(b)

(Note: Arco refuses to remediate, claiming contamination pre-dates Arco's lease)

(Note: Since 85 tank removal showed no contamination, a possible additional violation includes operating a leaking system.)

This station was inspected on August 2, 1990. Violations include:

Drums containing hazardous waste were stored without secondary containment.

Chapter 12, § 3-12301
§ 3-12101
§ 3-12100
§ 3-12307(e)

B/P 17200

There was insufficient clearance in front of the electrical panel and air compressor.

UFC (1988) 85.105
UFC (1988) 85.108
B/P 17200

(Note: At February 8, 1991 reinspection, these 2 violations were not observed.)

ALAMEDA COUNTY DEPARTMENT OF HEALTH GO BACK OVER FREMONT SITES FIRST

Note: 21 of 33 sites are known present or past leak sites.

Note: Violations in Fremont are listed above.

1260 Park St, Alameda (site status as of 2/21/91)

(Note: A waste oil tank was removed from this site in May, 1987. 2,400 ppm motor oil in soil. Though soil removed, Arco never documented to County how the contaminated soil was disposed. Question: Was soil properly manifested and disposed of as hazardous waste?)

A leak report was never filed after the discovery of the waste oil contamination.

H/S 25295(a)
H/S 25299(a) (4)
H/S 25299(b) (4)
H/S 25299(b)

(Note: After discovery of the waste oil leakage, groundwater testing with installation of 3 monitoring wells was never performed although contamination exceeded 100 ppm.)

In November, 1989, a leak was discovered during precision testing in 1 of the 5 tanks. ✓ No leak report filed.

again,

H/S 25295(a)
H/S 25299(a) (4)
H/S 25299(b) (4)
H/S 25299(b)

We believe Arco operated a tank it knew was leaking from November, 1989 to removal in July, 1990, allowing further product to leak.

H/S 25293(a)
H/S 25299(b) (4)
H/S 25299(b)

H/S 25299(b) (2)
H/S 25299(b)

H/S 25189(d)

On February 20, 1990, 21,000 ppm TPH discovered in soil boring near tank. At tank closure on July 26, 1990, TPH up to 23,000 ppm (2.3%) discovered at a depth of 12 feet. At tank removal, free product was observed in groundwater in the pit. Although contaminated soil removed, Arco has submitted no documentation it removed the free product from the groundwater. Contamination left on site. (Note: On January 2, 1991, Arco submitted a workplan for groundwater investigation and soil remediation. Arco proposes to install 5 monitoring wells. The work has yet to commence.)

some of the old piping left on site
H/S 25189(d)

again,

(Note: ^ Arco never documented to County how the contaminated soil was disposed. Question: Was some of the contaminated soil properly manifested and disposed of as hazardous waste?)

~~(Note: All old piping was not removed.)~~

No as-builts submitted for tanks installed August, 1990.

T.23 - 2635(c)(8)
H/S 25299.3
H/S 25299

Routine monitoring plan and contingency plan for release not submitted.

T.23 - 2632(d)(1), (d)(2)
H/S 25299.3
H/S 25299

In April, 1990, hazardous materials specialist Chesick advised Arco of permit requirement. However, no permit applications have been received by County. Tanks being operated absent permit.

H/S 25284(c)
H/S 25299(b)(1)
H/S 25299(b)

1001 San Pablo Ave., Albany - #2035 (site status as of 1/30/91)

As an indicator of problems at this location,
This site and its single-walled tanks has been the subject of 3 filed unauthorized release reports since 1988. In March, 1988, 2 tanks failed precision test and leak report was submitted by cover letter dated 6/7/88. Delay in notification of unauthorized release.

(Law calls for notification within 5 days)
T.32 2652
H/S 25295(a)
H/S 25299(a)(4)
H/S 25299(b)(4)
H/S 25299(b)

(Note: 2 tanks failed March, 1988, precision test. When retested in April, 1 passed and 1 failed. County has not been advised as to what measures, if any, have been taken to repair tank that has failed 2 precision tests. Additional violations likely if Arco continued to operate a tank that had repeatedly failed precision tests.)

UTID/ Status	Name of Site	Site Address	#Tanks	PERMITS:
IS VSP SH	3629 C Arco Station #02112 T61043	(35) FP ✓ 1260 Park St. Alameda, CA 94501	4	I:12/27/91 F:01/23/92
LS	3858 C Arco AM/PM Minimarket T61043	FP #0 ✓ 1001 San Pablo Ave. Albany, CA 94706	4	I:-0- F:-0-
	658 C Arco Station #04977 T61043	2770 Castro Valley Blvd. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
JS	3943 C Arco Station #02152 T61043	22141 Center St. Castro Valley, CA 94546	3	I:09/06/88 F:-0-
JA	1053 C Arco Station #06041 T61043	7249 Village Pkwy. Dublin, CA 94568	3	I:09/06/88 F:-0-
JE	817 C Arco Station #05387 T61043	FP ✓ 20200 Hesperian Blvd. Hayward, CA 94541	4	I:09/06/88 F:-0-
SH	2112 C Springtown Arco T42311	909 Bluebell Dr. Livermore, CA 94550	3	I:-0- F:-0-
	3941 C Arco Facility #00498 T61043	286 S. Livermore Ave. Livermore, CA 94550	3	I:09/06/88 F:-0-
SH	3873 C Arco Station #00771 T61043	FP ✓ 899 Rincon Ave. Livermore, CA 94550	4	I:09/06/88 F:-0-
SH	-0- C Arco Station #06113 T61043	785 E. Stanley Blvd. Livermore, CA 94550	3	I:09/06/88 F:-0-
	198 R Wong's Arco T61026	2032 E. - 12th St. Oakland, CA 94606	0	I:-0- F:-0-
3C	3876 C Arco Station #02185 T61043	9800 E. - 14th St. Oakland, CA 94603	4	I:09/06/88 F:-0-
	1130 C Freeway Arco TA1036	2740 - 98th Ave. Oakland, CA 94605 Arco?	4	I:10/13/87 F:-0-
DB	3793 C Arco Station #02169 T61043	(SH) ✓ 889 W. Grand Ave. Oakland, CA 94607	4	I:-0- F:-0-
PS	3749 R Gin's Arco Service -0-	706 Harrison St. Oakland, CA 94612 Arco?	0	I:-0- F:-0-
3C	3854 C Arco Station #04494 T61043	FP ✓ 566 Hegenberger Rd. Oakland, CA 94621	3	I:02/05/88 F:01/30/91
	1038 C Zema Ctr. Inc. Arco T21043	2951 High St. Arco? Oakland, CA 94619	5	I:02/05/88 F:-0-
SH	3874 C Arco Station #04931 T61043	FP ✓ 731 W. MacArthur Blvd. Oakland, CA 94609	4	I:-0- F:-0-
PS	3756 C Arco Station #00276 T61043	FP ✓ 10600 MacArthur Blvd. Oakland, CA 94605	4	I:-0- F:-0-
	851 C Mountain Blvd. Arco #796 T41043	2844 Mountain Blvd. Oakland, CA 94602	4	I:04/14/88 F:-0-
DS	-0- C Arco Station #02107 T61043	3310 Park Blvd. Oakland, CA 94610	3	I:09/06/88 F:-0-
	3942 C Arco Station #06002 T61043	6235 Seminary Ave. Oakland, CA 94605	4	I:09/06/88 F:07/30/91
SH	3626 C Arco Station #06148 T61043	5131 Shattuck Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
SH	-0- C Arco Station #00374 T61043	FP ✓ 6407 Telegraph Ave. Oakland, CA 94609	3	I:09/06/88 F:-0-
	-0- F freedom arco mini mart -0-	15101 Freedom Ave. Arco? San Leandro, CA 94578	3	I:-0- F:-0-
	1794 C Tharco T81053	2222 Grant Ave. Arco? San Lorenzo, CA 94580	1	I:08/16/88 F:-0-
PE	779 C Arco Station #00608 T61043	FP ✓ #779 17601 Hesperian Blvd. San Lorenzo, CA 94580	4	I:09/06/88 F:12/31/91

PEV REMEDIATION :

FP ✓ 20200 Hesperian Blvd.
HAYWARD

5yr permit

2/21/91

1/25/91

LIST OF ARCO SITES IN ALAMEDA COUNTY

	<u>Address</u>	<u>Regulatory Category and Jurisdiction</u>	<u>Status</u>
SH	✓ * Arco #2112 Free Product 1260 Park St. St. Alameda 94501 5 UGIs (9/6/88)	ACDEH for all programs KC	READY
	✓ * Arco #2035 Free Product 1001 San Pablo Ave. Albany 94706 4 UGIs (2/13/88)	ACDEH for all programs Permits A & B to L3 (7/18/89) L S	inspection completed remediation status only
	* Arco # 80034 800 San Pablo Ave. } Arco contract Albany CA 94706 } Dealer Yen's Arco 4 UGIs (4/91)	Berk. Env. Hlth. Dept.	
	1299 San Pablo Ave. Berkeley 94706		
	Arco #414 3000 Shattuck Ave. Berkeley 94705	Berk. Env. Hlth. Dept.	
	* Arco #4977 UGI tests 2 Permit A & B to SS 7/18/91 2770 Castro Valley Rd. Castro Valley 94546 3 UGIs (F 7/15/88)	ACDEH for all programs SS	update ready
	* Arco #2152 22141 Center St. Castro Valley 94546 3 UGIs (9/6/88)	ACDEH for all programs SS	update ready
G	✓ Arco #6041 7249 Village Pkwy. Dublin 94568 3 UGIs (9/6/88)	ACDEH for all programs Permits A & B to RA (7/18/91) RA	ready
G	Arco #2147 40055 Blacow Rd. Fremont 94538	City of Fremont for tanks, HMMP; ACDEH for generator SS	ready
G	Arco #2158 35900 Fremont Blvd. Fremont 94536	City of Fremont for tanks, HMMP; ACDEH for generator TP	ready
	Arco #5369 36794 Fremont Blvd. Fremont 94536	City of Fremont for tanks, HMMP	

	<u>Address</u>	<u>Regulatory Category and Jurisdiction</u>	<u>Status</u>
	Arco #6206 <i>Free Product</i> * 43500 Grimmer Blvd. Fremont 94538	City of Fremont for tanks, HMMP	
G	Arco #6201 40077 Mission Blvd. Fremont 94539	City of Fremont for tanks, HMMP; ACDEH for generator SS	<i>ready</i>
	Arco #5387 <i>No Free Product</i> * 20200 Hesperian Blvd. Hayward 94541 <i>4UGTS (9/6/88)</i>	City of Hayward for tanks, ACDEH HMMP PE	<i>ready</i>
	Airport Area 20450 Hesperian Blvd. Hayward 94541	City of Hayward for tanks, HMMP	BEACON STATION
G	Arco #1319 365 Jackson St. Hayward 94544	City of Hayward for tanks, HMMP; ACDEH for generator RA	<i>ready</i>
G	Arco #362 <i>Free Product</i> * 29900 Mission Blvd. Hayward 94544	City of Hayward for tanks, HMMP; ACDEH for generator RA	<i>ready</i>
G	Springtown Arco # <i>83231</i> 909 Bluebell Dr. <i>Arco Contract Dealer</i> Livermore 94550 <i>3 UGTS (no permits)</i>	ACDEH for all programs GW	<i>ready</i>
	Arco #498 286 S. Livermore Ave. Livermore 94550 <i>3 UGTS (9/6/88)</i>	ACDEH for all programs GW	<i>ready</i>
	Arco #771 <i>Free Product</i> * 899 Rincon Ave. Livermore 94550 <i>4 UGTS (9/6/88)</i>	ACDEH for all programs GW	<i>ready</i>
	<i>1/28/91</i>		
	<i>2/21/91</i> ↓		
G	Arco #6113 785 E. Stanley Blvd. Livermore 94550 <i>3 UGTS (9/6/88)</i>	ACDEH for all programs GW	<i>ready</i>
G	* Arco station 2032 E. 12th St. Oakland 94606	ACDEH for all programs NOT OWNED by ARCO. BC	⊕

⊕ Title

71 MacArthur Blvd. check

<u>Address</u>	<u>Regulatory Category and Jurisdiction</u>	<u>Status</u>
✓ Arco #2185 9800 E. 14th St. Oakland 94603 4UGIS(9/6/88)	ACDEH for all programs AL DB	ready
✓ Arco station (RHINO now) G* 2740 - 98th Ave. NOT OWNED by ARCO Oakland 94605 4UGIS(10/13/87)	ACDEH for all programs PS	ready
✓ Arco #2169 889 W. Grand Ave. Oakland 94607 5UGIS(9/6/88)	ACDEH for all programs DB	∅
* ✓ Gin's Arco - Tanks removed by Gin 1/91 (not by Arco) - now Station 706 Harrison St. NOT OWNED by ARCO Oakland 94607 0 UGIS(9/6/88)	ACDEH for all programs PS	7 tanks removed 1/91; no records on HAMP on file, or UST permits
? * ✓ Arco #4494 Free Product 566 Hegenberger Dr. Oakland 94621 3UGIS(9-2/15/88) F-1130/91	ACDEH for all programs PS - inspection KC - remediation	ready
G* #83261 High St. Arco Arco Contract Deal 2951 High St. Oakland 94619 5UGIS(2/5/88)	ACDEH for all programs PS	∅
* ✓ Arco #4931 FREE PRODUCT 731 W. MacArthur Blvd. Oakland 94609 4UGIS(9/6/88)	ACDEH for all programs SH	ready
* Arco #276 Free Product 10600 MacArthur Blvd. Oakland 94605 4(9/6/88)	ACDEH for all programs ec PS	∅
G Arco station (owned by Desert Petroleum) → cleanup underway 2844 Mountain Blvd. Oakland 94602 (4)(4/14/88)	ACDEH for all programs LS LS	∅
- ✓ Arco #2107 3310 Park Blvd. Oakland 94610 (3)(4/6/88)	ACDEH for all programs PS	ready
✓ Arco #6002 6235 Seminary Ave. Oakland 94605 (7)(4/6/88)	ACDEH for all programs PS	ready

<u>Address</u>	<u>Regulatory Category and Jurisdiction</u>	<u>Status</u>
✓ Arco #6148 5131 Shattuck Ave. Oakland 94609 (2) (4/6/88)	ACDEH for all programs SH	ready
* Arco #374 Free Product 6407 Telegraph Ave. Oakland 94609 3 (9/6/88)	ACDEH for all programs DB	∅
Arco station 4191 First St. Pleasanton 94566	City of Pleasanton for tanks, HMMP	
G ✓ Arco #2111 1156 Davis St. San Leandro 94577	City of San Leandro for tanks; ACDEH for HMMP, generator WF	ready
** ✓ Freedom Arco 3 UG's (no shipping) 15101 Freedom Ave. (no shipping) distributor facility San Leandro 94578 (outside city limits) WF SS	ACDEH for all programs	ready
* * ✓ Chopra's Arco #83266 1401 Grand Ave. (no shipping) distributor facility San Leandro 94577	City of San Leandro for tanks; ACDEH for HMMP WF	ready
G ✓ Arco #2162 15135 Hesperian Blvd. San Leandro 94578	City of San Leandro for tanks; ACDEH for HMMP, generator WF	ready
* ✓ Arco #601 Free Product 712 Lewelling Blvd. San Leandro 94579	City of San Leandro for tanks; ACDEH for HMMP WF LS - remediation	AMMP info only
* ✓ Arco #608 FREE PRODUCT 17601 Hesperian Blvd. San Lorenzo 94580 (4 - 9/6/88) UG's	ACDEH for all programs Amint's H&B to PEC 7/18/91 PE	ready
* ✓ ARCO Food Gas / Car Wash 14610 Washington Ave. San Leandro 94578 ARCO CONTRACT DEALERS	San Leandro for tanks; ACDEH for HMMP	ready
	2110 Mountain / Merced	??

(6/11/92)

LIST OF ARCO SITES WITH UGT CLEANUP

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

OBSOLETE - 4/5/91

ALAMEDA COUNTY DEPARTMENT OF HEALTH (17 sites are leak sites)

1260 Park St. Alameda (site status as of 2/21/91)

A waste oil tank was removed from this site in May, 1987. 2,400 ppm motor oil in soil. Though soil removed, Arco never documented to County how the contaminated soil was disposed.

=====
=====
===== > no authority
could be found

A leak report was never filed after the discovery of the waste oil contamination.

H/S 25295(a)
H/S 25299(a)(4)
H/S 25299(b)(4)
~~H/S 25299(b)~~ STET

After discovery of the waste oil leakage, groundwater testing with installation of 3 monitoring wells was never performed although contamination exceeded 100 ppm.

=====
=====
===== > no authority

In November, 1989, a leak was discovered during precision testing in 1 of the 5 tanks. No leak report filed.

H/S 25295(a)
H/S 25299(a)(4)
H/S 25299(b)(4)
~~H/S 25299(b)~~ STET

We believe Arco operated a tank it knew was leaking from November, 1989 to removal in July, 1990, allowing further product to leak.

H/S 25299(b)(2)
~~H/S 25299(b)~~ STET
H/S 25189(d)
H/S 25293(a)

On February 20, 1990, 21,000 ppm TPH discovered in soil boring near tank. At tank closure on July 26, 1990, TPH up to 23,000 ppm (2.3%) discovered. At tank

at a depth
of 12'

removal, free product was observed in groundwater in the pit. Although contaminated soil removed, Arco has submitted no documentation it removed the free product from the groundwater. Contamination left on site. (Note: On January 2, 1991, Arco submitted a workplan for groundwater investigation and soil remediation. Arco proposes to install 5 monitoring wells. The work has yet to commence.)

H/S 25189(d)

Arco never documented to County how the contaminated soil was disposed.

(Note: All old piping was not removed.)

====> *no
authority
could be
found*

No as built submitted for tanks installed August, 1990.

T.23 - 2635(c)(8)
~~H/S 25299.3~~ STET
H/S 25299(a)(2)

Routine monitoring plan and contingency plan for release not submitted.

T.23 - 2632(d)(1), (d)(2)
~~H/S 25299.3~~ STET
H/S 25299(a)(2)

In April, 1990, hazardous materials specialist Chesick advised Arco of permit requirement. However, no permit applications have been received by County. Tanks being operated absent permit.

H/S 25284(c)
H/S 25299(b)(1)
H/S 25299(b)

30

1001 San Pablo Ave., Albany - #2035 (site status as of 1/28/91)

This site and its single-walled tanks has been the subject of 3 filed unauthorized release reports since 1988. In March, 1988, 2 tanks failed precision test and leak report was submitted by cover letter dated 6/7/88. Delay in notification of unauthorized release.

H/S 25295(a)
H/S 25299(a)(4)
H/S 25299(b)(4)
H/S 25299(b)

T.23 2652

ARCO Products Company
Monitoring and Response Plans

County Alameda - Public Health

Facility	Product Tanks		Product Lines		ELECTRONIC Tank Monitor	Probe in Sump	LINE Leak Detector	Used Oil Tank		Monitoring Plan
	DW	SW	DW	SW				DW	SW	
500 MacArthur Blvd Oakland	PS 216	✓		✓	✓	✓	✓			I
1407 Telegraph Ave Oakland	SH 314	✓		✓	✓	✓	✓			I
86 S. Livermore Ave.	SH 498	✓		✓			✓			IVA
7601 Hesperian Blvd. S.F.	PE 1008 5yr	✓		✓	✓	✓	✓	✓		IA
399 Rincon Ave. Liv.	SH 771		✓				✓			III
801 San Pablo, Albany	LS 2035	✓		✓	✓	✓	✓			I
310 Park Blvd. Oak	PS 2107	✓		✓	✓	✓	✓			II B
56 Davis St. S.F.	2111		✓		✓		✓		✓	III, V
1260 PARK ST. ALAMEDA	SH 2117 5yr	✓		✓	✓	✓	✓			I
241 Center St. C.V.	SS 2152	✓		✓	✓	✓	✓			I
19 W. Grand Ave. Oak	PB 2169		✓		✓		✓			III
800 E 14th St. Oakland	BC 2185		✓		✓		✓			III
16 Hegenburger Rd. Oak	BC 449A 5yr		✓		✓		✓			III
3160 Mac Oakland	SH 4931		✓		✓		✓			III
1770 Central Valley Blvd.	SB 4977		✓		✓		✓			III
235 Seminary Ave. Oak	PS 6002 5yr		✓		✓		✓			III
249 Village Parkway Dublin	RA 6041		✓		✓		✓			III
185 E. Stanley Liv.	SH 6113	✓		✓			✓			IVA
5131 Shattuck Ave. Oak	SH 6148		✓		✓		✓			III

SH-7 ✓ PB-1
 PS-2 ✓ BC-2
 LS-1 ✓ RA-1
 PE-1 ✓ SS-2

* # 560 Hegenburger Rd - approved cleanup & installation plan
 site contaminated

By permit Remediation

LISTING OF UGT CLEANUP SITES - (ALPHA:from LOP db)

as of 06/09/92

page 1

CLOSED	INSP	STID	SITE NAME	ADDRESS	CITY	ZIP
-0-	SH	3629	Arco AM/PM	1260 -0 Park St.	Alameda	94501
-0-	JM	817	Arco Petroleum	20200 -0 Hesperian Blvd.	Hayward	94541
-0-	SS	3943	Arco Station #2152	22141 -0 Center St.	Castro Valley	94546
-0-	SH	3883	Arco #6113	785 E. Stanley Blvd.	Livermore	94550
-0-	SH	3873	Arco Station #00771	899 -0 Rincon Ave.	Livermore	94550
-0-	SS	1053	Teutsch Enterprises, Inc. ARCO	7249 -0 Village Pkwy.	Dublin	94568
-0-	JM	779	Arco Station #00608	17601 -0 Hesperian Blvd.	San Lorenzo	94580
-0-	BC	3876	Arco Station #02185	9800 E. - 14th St.	Oakland	94603
-0-	BC	3756	Arco Facility #00276	10600 -0 Macarthur Blvd.	Oakland	94605
-0-	BC	198	Bill Davis Arco (Independent dealer)	2032 E. - 12th St.	Oakland	94606
-0-	SH	812	Leon's Arco (Independent dealer)	4401 -0 Market St.	Oakland	94608
-0-	SH	3874	Arco Station #04931	731 W. Macarthur Blvd.	Oakland	94609
-0-	SH	3884	Arco #0374	6407 -0 Telegraph Ave.	Oakland	94609
-0-	SH	3626	Arco #6148	5131 -0 Shattuck Ave.	Oakland	94609
-0-	BC	3890	Arco #2107	3310 -0 Park Blvd.	Oakland	94610
-0-	BC	3854	Arco Station #4494	566 -0 Hegenberger Rd.	Oakland	94621
-0-	BC	3858	Arco Facility #02035	1001 -0 San Pablo Ave.	Albany	94706
	SS		Arco Facility # 601	712 - Lewelling Blvd.	San Leandro	
	SH	3773	Arco Facility # 2169	889 W. Grand Ave.	Oakland	94607
			Arco Facility # 04977	2770 Castro Valley Blvd.	Castro Valley	94546
			Arco Facility #	909 Bluebell Dr.	Livermore	94550
			Arco Facility # 00498	286 S. Livermore Ave.	Livermore	94550
		198	Wong's Arco	2032 E. 12th St	Oakland	94606
		3876	Arco # 02185	9800 E. 14th St	Oakland	94603
		1130	Freeway Arco	2740 - 98th Ave.	Oakland	94605
		3749	Din's Arco	706 Harrison St.	Oakland	94612
		1038	Zema Ctr. Inc Arco	2951 High St.	Oakland	94619
		851	Mt. Blvd. Arco	2844 Mountain Blvd.	Oakland	94602
		3942	Arco # 06002	6235 Seminary Ave.	Oakland	94605
		3744	Freedom Arco mini mart	15101 Freedom Ave.	San Leandro	94578
		658	Arco Station # 04977	2770 Castro Valley Blvd.	Castro Valley	94546

(see back)

ST10

813 - Arco K&V Food Mart - 6211 San Pablo Ave. Emeryville 94608
 Airport Arco - 20450 Hesperian Blvd. Hayward 94541
 Arco # 2147 - 40055 Blacaw Rd Fremont 94538
 Arco # 2158 - 35900 Fremont Blvd. Fremont 94536
 Arco # 5369 - 36794 Fremont Blvd. Fremont 94536
 Arco # 6206 - 43500 Premier Blvd. Fremont 94538
 Arco # 6201 - 40077 Mission Blvd " 94539
 Arco # 1319 - 365 Jackson St Hayward 94544
 Arco # 362 - 29900 Mission Blvd. Hayward 94544
 Arco # 2111 - 1156 Davis St. San Leandro 94577
 Arco # 83266 - 1401 Grand Ave. San Leandro 94577
 Arco # 2162 - 15135 Hesperian Blvd. San Leandro 94578
 Arco - 14610 Washington Ave. San Leandro 94578