## **HEALTH CARE SERVICES**

AGENCY

DAVID J. KEARS, Agency Director



## ARNOLD PERKINS, DIRECTOR RAFAT A. SHAHID, DEPUTY DIRECTOR

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

(510)567-6700

fax: (510)337-9335

## REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3908 - 2142 E. 12th Street, Oakland 94606

January 25, 1996

Mr. Lynn Walker Shell Oil Co. P.O. Box 5278 Concord, CA 94520-9998

Dear Mr. Walker:

This letter confirms the completion of site investigation and remedial action for the three former underground storage tanks (3-10,000 gallon gasoline tank) removed from the above site on May 25, 1989. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

Chief, Division of Environmental Protection cc:

Kevin Graves, RWQCB

Mike Harper, SWRCB (with attachment)

files (shell1.3)

## CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

#### I. AGENCY INFORMATION

October 6, 1995 Date:

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy

City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700

Title: Hazardous Materials Spec. Responsible staff person: Eva Chu

#### CASE INFORMATION II.

Site facility name: Shell Oil Co

Site facility address: 2142 E. 12th Street, Oakland 94606

Local Case No./LOP Case No.: 3908 RB LUSTIS Case No: N/A

URF filing date: 6/21/89 SWEEPS No: N/A

Addresses: Phone Numbers: Responsible Parties:

(510) 675-6169 P.O. Box 5278 Shell Oil Co.

Concord, CA 94520-9998 Attn. Lynn Walker

Tank No:	Size in gal.:	<u>Contents:</u>	Closed in-place or removed?:	<u>Date:</u>
1	10,000	Gasoline	Removed	5/25/89
2	10,000	Gasoline	Removed	5/25/89
3	10,000	Gasoline	Removed	5/25/89

#### RELEASE AND SITE CHARACTERIZATION INFORMATION III.

Cause and type of release: Possible leaking pipe/dispenser

Site characterization complete? YES

Date approved by oversight agency: 7/13/95

Monitoring Wells installed? Yes Number: 4

Proper screened interval? Yes, 3 to 20' bgs

Highest GW depth below ground surface: 5.30 Lowest depth: 7.10' in MW-3

Flow direction: Southwest to southeast

Most sensitive current use: Commercial/light industrial

Are drinking water wells affected? No Aquifer name:

Is surface water affected? No Nearest affected SW name: Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County

1131 Harbor Bay Pkwy Alameda, CA 94502

## Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include unit	Action (Treatment s) or Disposal w/destination)	<u>Date</u>
Tank Piping Free Product	3 USTs	Crosby & Overton, in Long Beach	5/25/89
Soil	4940 lb. 65 cy	GSX Laidlaw in Buttonwillow Aerated onsite¹	7/20/90 6/2/89
		1.1	

NOTE 1 Final disposition unknown. After aeration, a 2 into 1 copmosite sample did not detect TPH-G or BTEX

Maximum Docume Contaminant	nted Conta	minant Co Soil Before	oncentration (ppm) After <sup>1</sup>		(ppb)	r Cleanup
TPH (Gas) TPH (Diesel)		210	63	29,000	760	
Benzene Toluene Ethylbenzene Xylenes		5.3 1.3 2.0 2.8	5.3 1.3 1.3 2.8	85 140 530 1,900	ND ND 1.5 ND	
Oil & Grease Heavy metals Other	418.1 Cl-HC	470 <sup>3</sup>			ND	

Note:

- 1 from pipe trench sample P-2 at 7' depth
  2 grab groundwater sample from tank pit
- 3 from boring MW-2 at 3' bgs

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? YES Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? YES Does corrective action protect public health for current land use? Site management requirements: None Should corrective action be reviewed if land use changes? Monitoring wells Decommissioned: None, pending site closure Number Retained: 4 Number Decommissioned: 0 List enforcement actions taken: None List enforcement actions rescinded: NA

#### LOCAL AGENCY REPRESENTATIVE DATA ٧.

Eva Chu Name:

Title: Haz Mat Specialist

Signature: 100 Date: W/10/95

Reviewed by

Name: Barney Chan Title: Haz Mat Specialist

Signature: Barrey Che-

Date: 10/10/95

Dale Klettke Name:

Title: Haz Mat Specialist

Date: 10/10/95

VI. RWOCB NOTIFICATION

Date Submitted to RB: 10(11/45

RB Response: Aproved
Title: AWRCE
Date: 10/23/95

RWQCB Staff Name: /kevin Graves

Signature: XX Awes

VII. ADDITIONAL COMMENTS, DATA, ETC.

Three 10K USTs were removed on May 25, 1989. Groundwater was encountered in the pit at a depth of 7'. Six sidewall samples (SW-1 to 6) were collected at approximately 6" above the water table, and one grab groundwater sample (W-1) was collected from within the tank pit. Five soil samples were also collected along the product pipe trenches (P-1 to 5) at depths ranging from 3 to 7'. Soil from the tank pit exhibited up to 21 ppm TPH-G and ND, ND, 0.22, and ND ppm BTEX, respectively. A grab groundwater sample exhibited 29,000 ppb TPH-G, 85, 140, 530, and 1,900 ppb BTEX, respectively.

Piping trench sample P-2 from 7' depth exhibited 63 ppm TPH-G, and 5.3 ppm benzene. Sample P-5 exhibited 210 ppm TPH-G and 0.17 ppm benzene at 3' depth. The area around P-5 was overexcavated to 9' where another soil sampled collected did not detect TPH-G or BTEX. The area of P-2 was not overexcavated.

In October 1989 four soil borings were advanced to approximately 20' bgs and converted into wells MW-1 to 4. Groundwater has been sampled for at least 14 quarters, from 11/89 to 3/95. TPH-G has been <500 ppb and BTEX has been <3.5 ppb since 12/93. Continued monitoring is not warranted.

Approximately 800 cy of soil was excavated from the new tank pit. Sixteen composite samples detected a maximum of 26 ppm TPH-G and .06 ppm benzene. It is not clear if this soil was reused onsite or disposed of offsite.

shell1.1

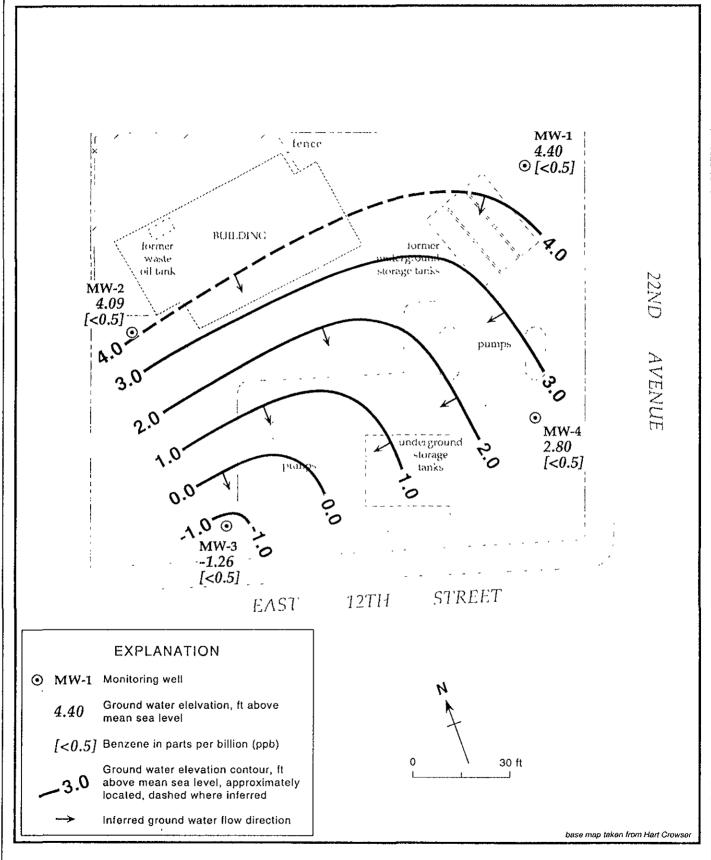


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - June 26, 1995 - Shell Service Station, WIC #204-5508-4507, 2142 East 12th Street, Oakland, California

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Table 2. Analytical Results for Ground Water - Fomer Shell Service Station WIC #204-5508-4507, 2142 East 12th Street, Oakland, California

Well	Sample	Depth to Water	ТРН-G	В	Т	E	х	TOG	Halogenated Hydrocarbons
ID	Date	(ft)	<u> </u>		pa	rts per billion (	ug/l) —		<del></del>
MW-1 <sup>b</sup>	11/02/89	6.79	< 50	<0.5	< 0.5	< 0.5	< 0.5		
1,71, 7	04/13/90	6.48	1,000	10	0.41	2.4	0.63		
	10/26/90	6.22	600	130	1.7	0.36	4.6	***	
	09/10/91	6.89	510	2.6	< 0.5	< 0.5	0.9		
	12/10/91	8.86	380	3.4	< 0.5	< 0.7	1.5		
	03/13/92	4.95	< 50	1.1	0.6	< 0.5	7.9		
	06/05/92	6.24	150	< 0.5	< 0.5	< 0.5	0.5		
	09/01/92	6.79	240	< 0.5	0.7	1.3	1.6		
	09/01/92 <sup>dup</sup>	6.79	230	< 0.5	0.8	1.7	1.8		
	12/04/92	6.49	170	< 0.5	4.0	< 0.5	6.3		
	12/04/92 <sup>dup</sup>	6.49	130	< 0.5	3.1	< 0.5	3.6		
	03/12/93	5.16	97	< 0.5	< 0.5	0.7	0.8		
	03/12/93 <sup>dup</sup>	5.16	100	< 0.5	< 0.5	0.7	0.7		
	06/07/93	5.86	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/14/93	6.16	67	< 0.5	< 0.5	< 0.5	4.5		
	12/14/93 <sup>dup</sup>	6.16	70	< 0.5	< 0.5	< 0.5	5.6		
	06/16/94	5.93	70°	1.4	< 0.5	< 0.5	< 0.5		
	03/16/95	4.86	< 50	< 0.5	< 0.5	< 0.5	< 0.5		ND
	06/26/95	5.82	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
MW-2 <sup>b</sup>	11/02/89	6.02	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	04/13/90	5.69	< 30	< 0.3	< 0.3	< 0.3	< 0.3		
	10/26/90	7.01	< 30	< 0.3	< 0.3	< 0.3	< 0.3	<5,000	
	09/10/91 <sup>d</sup>	6.15	< 50	< 0.5	< 0.5	< 0.5	< 0.5	5,300	
	12/10/91	6.19	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5,000	
	03/13/92	4.49	< 50	0.9	< 0.5	< 0.5	1.3	< 5,000	
	06/05/92	5.46	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5,000	
	09/01/92	6.12	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5,000	
	12/04/92	5.90	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5,000	

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Table 2. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-4507, 2142 East 12th Street, Oakland, California (continued)

Well	Sample	Depth to Water	ТРН-G	В	Т	Е	X	TOG	Halogenated Hydrocarbons
ID	Date	(ft)	<del></del>		pa	rts per billion (	ug/l)		
	02/12/02	£ 00	-50	-0.5	< 0.5	40 F	<b>-0.5</b>		
	03/12/93	5.00	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	06/07/93	4.70	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	· 06/07/93 <sup>dup</sup>	4.70	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/14/93	5.21	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	06/16/94	5.46	< 50	< 0.5	< 0.5	< 0.5	< 0.5		215
	03/16/95	4.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5		ND
	0626/95	5.45			***				
MW-3 <sup>b</sup>	11/02/89	6.37	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	04/13/90	7.04	310	0.69	0.75	0.78	0.34		
	10/26/90	7.08	290	< 0.3	< 0.3	< 0.3	< 0.3		
	09/10/91	6.76	100	< 0.5	< 0.5	< 0.5	< 0.5		
	12/10/91	6.73	50	< 0.5	< 0.5	< 0.5	< 0.5		
	03/13/92	5.61	320	< 0.5	< 0.5	< 0.5	3.2		
	06/05/92	6.51	310	< 0.5	< 0.5	< 0.5	2.8		
	09/01/92	6.58	180	< 0.5	< 0.5	0.7	1.5		
	12/04/92	6.29	< 170	1.1	1.7	< 0.5	10		
	03/12/93	6.44	510	< 0.5	1.7	< 0.5	5.3		
	06/07/93	7.10	350	1.7	< 0.5	< 0.5	< 0.5		
	12/14/93	5.99	160	< 0.5	< 0.5	< 0.5	3.5		
	06/16/94	6.88	420	< 0.5	< 0.5	< 0.5	< 0.5		
	06/16/94 <sup>dup</sup>	6.88	340°	< 0.5	< 0.5	< 0.5	< 0.5		
	03/16/95	5.30	420	< 0.5	0.6	< 0.5	< 0.5		ND
	03/16/95 <sup>dup</sup>	5.30	390	< 0.5	< 0.5	1.3	3.1		
	06/26/95	9.42	760	< 0.5	< 0.5	1.5	< 0.5		
	$06/26/95^{\rm dup}$	9.42	680	< 0.5	< 0.5	< 0.5	< 0.5		

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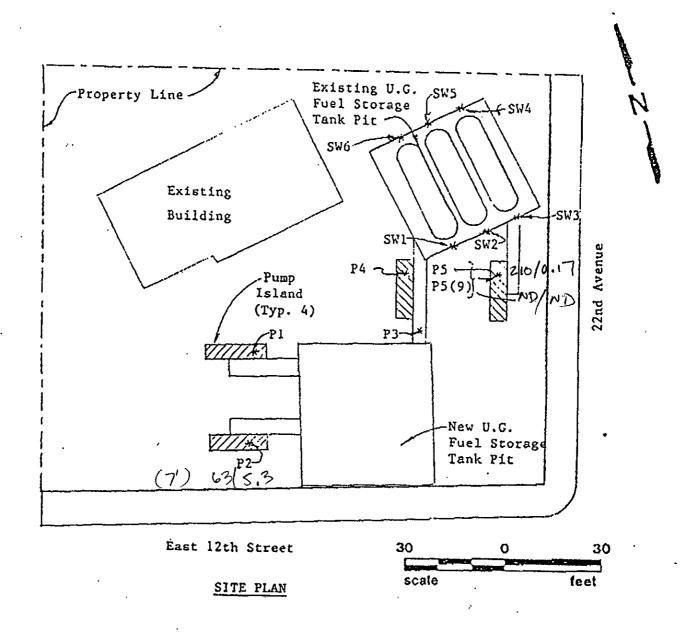
Table 2. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-4507, 2142 East 12th Street, Oakland, California (continued)

Well ID	Sample	Depth to Water	TPH-G	В	Т	E	X	TOG	Halogenated Hydrocarbons <sup>a</sup>
ענ	Date	(ft)			pa	arts per billion	(ug/l)		· · · · · · · · · · · · · · · · · · ·
MW-4 <sup>b</sup>	11/02/89	6.97	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
	04/13/90	7.42	<30	< 0.3	< 0.3	< 0.3	< 0.3		-
	10/26/90	7.77	< 30	0.55	0.71	< 0.3	0.48		
	09/10/91	7.86	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/10/91	7.20	< 50	< 0.5	< 0.5	< 0.5	< 0.5	***	
	03/13/92	5.60	< 50	0.5	< 0.5	< 0.5	2.6		
	06/05/92	7.16	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	09/01/92	7.33	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/04/92	6.82	59	0.7	< 0.5	< 0.5	20		
	03/12/93	6.99	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	06/07/93	7.84	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/14/93	6.52	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	06/16/94	7.31	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	03/16/95	6.04	< 50	< 0.5	< 0.5	< 0.5	< 0.5		ND
	06/26/95	6.85	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
Trip	11/02/89		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
Blank	09/10/91		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/10/91		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	03/13/92		< 50	< 0.5	< 0.5	< 0.5	< 0.5		,
	06/05/92		<b>&lt;</b> 50 .	< 0.5	< 0.5	< 0.5	< 0.5		
	09/01/92		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/04/92		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	03/12/93		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	06/07/93		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	12/14/93		< 50	< 0.5	< 0.5	< 0.5	< 0.5		
	06/16/94		< 50	< 0.5	< 0.5	< 0.5	< 0.5		



# KAPREALIAN ENGINEERING, INC.

Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 - 9100 (707) 746 - 6915



\* Sample Location

Rpm VHg/benzene

Shell Service Station 2142 East 12th Street Oakland, California

TABLE 1

SUMMARY OF LABORATORY ANALYSES

SOIL

(Results in ppm)

(Samples collected on May 25 & 31, and June 2, 1989)

Sample #	Depth (feet)	TPH as Gasoline	<u>Benzene</u>	<u>Toluene</u>	( <u>Xylenes</u>	Ethyl- <u>benzene</u>
SW1	6	21	ND	ИО	ממ	0.22
SW2	6	5.1	ND	ND	ИD	ND
SW3	6	ND	ИD	ND.	ИD	ND
SW4	6	ND	ND	ND	иD	ND
SW5	6	ир	ND	ND	מא	ND
SW6	6	ND.	ND	ND	ND	ND
Pl	3	2.6	0.086	ND	ND	
P2	7	63	5.3	1.3	2.8	ND
Р3	4	36	0.055	ир	0.19	1.3
P4	3.5	3.8	ИD	ND		0.33
<b>P</b> 5	3	210	0.17	•	ND .	ИД
P5 (9)	9	ND	ND	0.14 ND	0.48 ND	2.0 ND
Detection Limits		1.0	0.05	0.1	0.1	0.1

ND = Non-detectable.

KEI-J89-0409.R3 June 16, 1989

TABLE 2

# SUMMARY OF LABORATORY ANALYSES WATER (Results in ppb)

<u>Sample #</u> Wl	Depth (feet) 7	TPH as Gasoline	<u>Benzene</u> 85	Toluene	<u>Xyfenes</u> 1,900	Ethyl- benzene 530
Detection Limits		30	0.3	0.3	0.3	0.3