

# EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

DARIN L. ROUSE  
SENIOR ENGINEER

(925) 246-8768  
(925) 246-8798 FAX

February 24, 2000

Ms. Susan L. Hugo  
Alameda County Health Care Services Agency  
Environmental Health Division  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

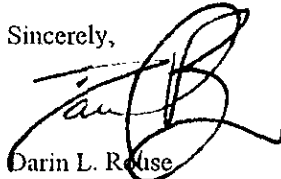
**RE: Exxon RAS #7-0234/3450 35<sup>th</sup> Avenue, Oakland, California.**

Dear Ms. Hugo:

Attached for your review and comment is a *Case Closure Summary Form*, dated February 17, 2000, for the above referenced site. The Case Closure Summary Form was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and provides a summary of activities performed and conditions at the site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



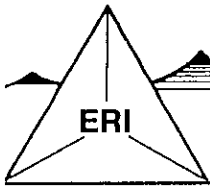
Darin L. Rouse  
Senior Engineer

Attachment: ERI's Case Closure Summary Form, dated February 17, 2000.

cc: w/o attachment  
Mr. James F. Chappell - Environmental Resolutions, Inc.

00 FEB 24 PM 4:25  
ENVIRONMENTAL  
PROTECTION





**ENVIRONMENTAL RESOLUTIONS, INC.**

February 17, 2000  
ERI 247614.R01

Mr. Darin L. Rouse  
Exxon Company, U.S.A.  
P. O. Box 4032  
Concord, California 94524-4032

Subject: Case Closure Summary for Exxon Service Station 7-0234,  
3450 35<sup>th</sup> Avenue, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) has prepared this Case Closure Summary in response to a verbal request from the Alameda County Health Care Services Agency (the County), made December 12, 1999.

The site is located on the southeastern corner of 35<sup>th</sup> Avenue and Quigley Street in Oakland, California as shown on the Site Vicinity Map (Plate 1). Selected site features are shown on Plate 2. It is ERI's opinion that the site qualifies as a low-risk groundwater case based on minimal impact to groundwater, and effective source removal.

Please call Mr. James Chappell at (415) 382-4323 with any questions regarding this project.

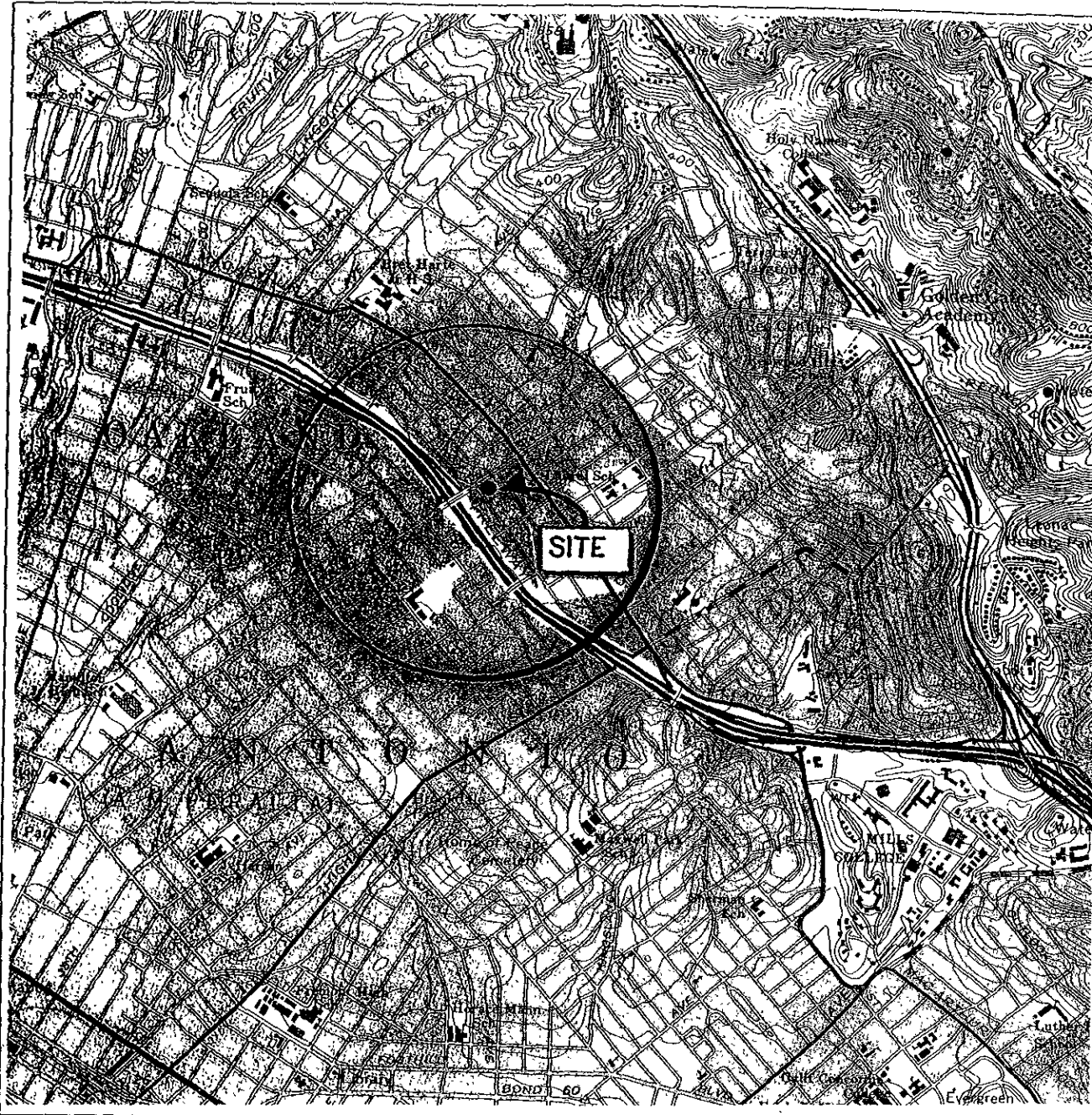
Sincerely,  
Environmental Resolutions, Inc.

James F. Chappell  
Senior Staff Scientist



John B. Bobbitt  
R.G. 4313

Attachments: Plate 1: Site Vicinity Map  
Plate 2: Generalized Site Plan  
Attachment: Case Closure Summary



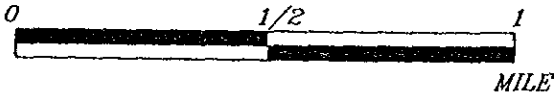
FN 24760001

**EXPLANATION**

Source: U.S.G.S. 7.5 minute topographic quadrangle map Oakland East, California (Photorevised 1980)



APPROXIMATE SCALE



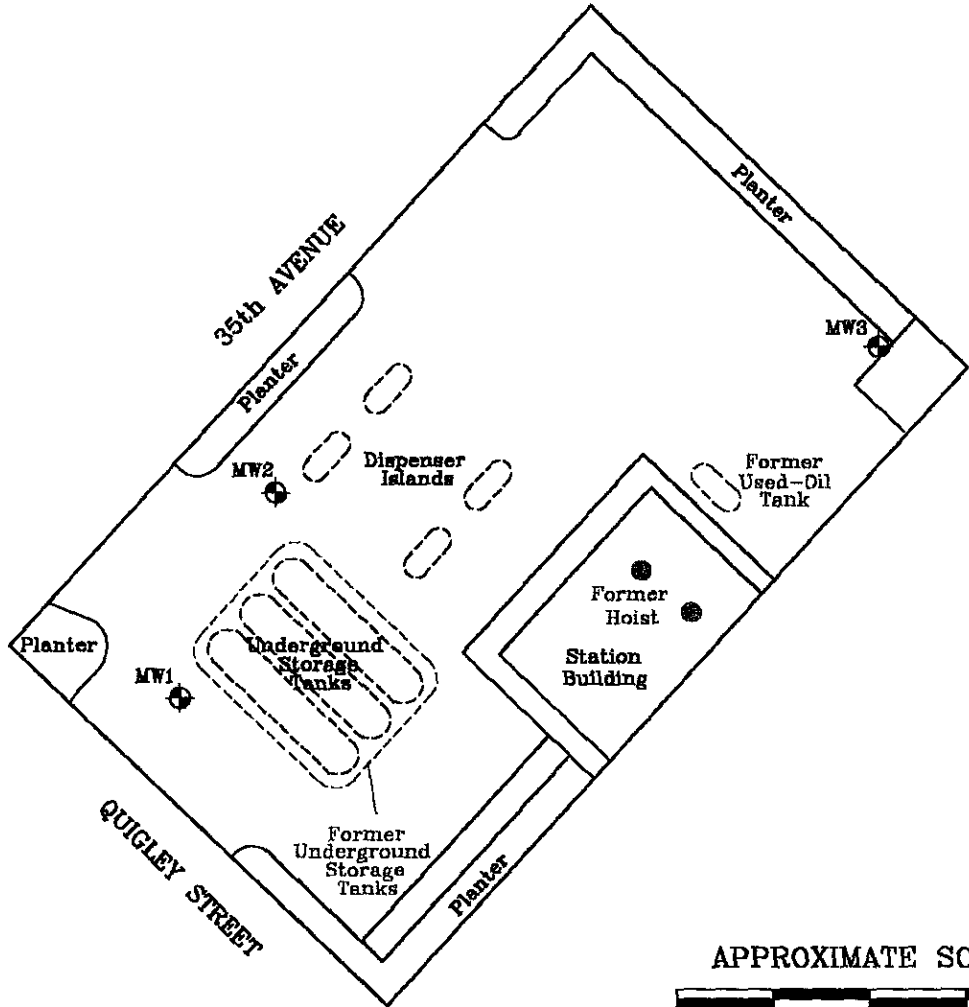
**PROJECT** ERI 2476

**SITE VICINITY MAP**

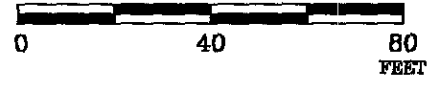
EXXON SERVICE STATION 7-0234  
3450 35th Avenue  
Oakland, California

**PLATE**

1




APPROXIMATE SCALE



SOURCE:  
Modified from a map  
provided by  
Exxon Company, USA

FN 24760002

**EXPLANATION**

- MW3  
 Groundwater Monitoring Well  
 Groundwater elevation in feet  
 above mean sea level
- i = Interpreted Groundwater Gradient



**GENERALIZED SITE PLAN**  
 EXXON SERVICE STATION 7-0234  
 3450 35th Avenue  
 Oakland, California

PROJECT NO.  
2476  
 PLATE  
2  
 October 28, 1998

## CASE CLOSURE SUMMARY

### I. AGENCY INFORMATION

Agency Name: Alameda County Environmental Health Services	Address: 1131 Harbor Bay Parkway, Suite 250
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6700
Responsible Staff Person: Susan L. Hugo	Title: Hazardous Materials Specialist

### II. SITE INFORMATION

Site Facility Name: Exxon Service Station (RS) 7-0234				
Site Facility Address: 3450 35 <sup>th</sup> Avenue, Oakland, California				
RB LUSTIS Case No.:		URF Filing Date:		
Local or LOP Case No.: STID #519		SWEEPS No.:		
Responsible Parties (include addresses and phone numbers) Exxon Company USA, P.O. Box 4032, Concord, California 94524-4032				
Exxon Environmental Engineer: Darin L. Rouse, (925) 246-8768				
Tank No.	Size in Gallons	Contents	Closed InPlace/Removed?	Date
1	8,000	Gas - regular	Removed	1991
2	8,000	Gas - unleaded	Removed	1991
3	8,000	Gas - super unleaded	Removed	1991
4	500	Used-oil	Removed	1997
5	12,000	Gas - unleaded	In use	
6	12,000	Gas - unleaded	In use	
7	12,000	Gas - unleaded	In use	

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Estimated Quantity of Release: Gasohne Underground Storage Tanks (UST), March 20, 1991 Used-oil UST and Hydraulic Hoists, June 18, 1997		
Site Characterization complete? Yes	Date approved by oversight agency? N/A	
Monitoring wells installed? Yes	Number: 3	Proper screen interval? Yes
Minimum Groundwater Depth: 28.39 ft	Max. Depth: 37.24ft	Flow Direction: South-Southwest
Most sensitive current use: Irrigation		
Most sensitive potential use: Domestic		
Are drinking water wells affected: Unknown	Approximate yield: N/A	
Is Drinking water Affected? Unknown	Nearest SW name: Peralta Creek ( 600 feet)	
Off-site Beneficial Use Impacts (Adresses/Locations): N/A		

## CASE CLOSURE SUMMARY

Report(s) on File? Yes
Where? Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, California California Regional Water Quality Control Board – San Francisco Bay Region, Oakland, California
Current Site and Surrounding Land Use: Currently operating as a Exxon Service Station, dispensing gasoline. Surrounding land uses: Industrial businesses are located southeast of the site. Highway 880 is located west of the site along 35 <sup>th</sup> Avenue.

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount	Action (Treatment or Disposal w/Destination)	Date
UST	#1 through #3 #4	Disposed of at Erickson, Inc. of Richmond, CA Disposed of at Erickson, Inc. of Richmond, CA	8/91 6/18/97
Product Piping	100-200 feet	Disposed of at Erickson, Inc. of Richmond, CA	8/91
Soil	1,200 yards	Disposed of at Chemical Waste Management of Kettleman Hills, CA	9/4-9/12/91
Groundwater	800 gallons 65 gallons	Unknown Recycled at Romic Environmental, Palo Alto, CA	7/92-5/95 9/20/99
Product	None	N/A	

Maximum documented pollutant concentrations before and after cleanup (includes excavation)						
Constituent	Gasoline UST Soil (ppm)		Used-Oil UST/Hoists Soil (ppm)		Groundwater (ppm)	
	Before	After	Before	After	Before	After
TPH Gas	440	5.0	---	8.6*	0.067	0.075
TPH Diesel	---	---	---	200*	---	---
Benzene	2.8	0.36	---	<0.005	0.0066	<0.0005
Toluene	7.2	0.063	---	0.038	0.0069	0.0115
Ethylbenzene	4.7	0.052	---	0.016	0.002	0.0018
Xylenes	27	0.16	---	0.046	0.0045	0.018
MTBE	---	---	---	---	---	0.00187
Oil and Grease	<50	---	---	---	---	---
Total Lead	<0.5	---	---	8.8	0.05	<0.075
Metals	---	---	---	84	---	---
Hydraulic Oil	---	---	---	2,100*	---	---
Motor Oil	---	---	---	680*	---	---

\* = Laboratory analysis report note – unidentified hydrocarbon

## CASE CLOSURE SUMMARY

### 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? Yes  
Site Management Requirements: QM data indicate acceptable risk for low risk groundwater closure.

Monitoring wells decommissioned: No      Number decommissioned: 0      Number retained: 3  
List enforcement actions taken: None  
List enforcement actions rescinded: None

### IV. LOCAL AGENCY REPRESENTATIVE DATA

Name: Susan L. Hugo      Title: Hazardous Materials Specialist

Signature:      Date:

#### Reviewed By:

Name: Thomas Peacock      Title: Manager LOP

Signature:      Date:

### VI. RWCQB NOTIFICATION

Date submitted to Regional Board:      Regional Board Response:

Regional Board Staff: Chuck Headlee      Title: Associate Engineering Geologist

Signature:      Date

## CASE CLOSURE SUMMARY

### VII. ADDITIONAL COMMENTS

The site currently operates as an Exxon Service Station. It is located on the southeast corner of 35<sup>th</sup> Avenue and Quigley Street in Oakland, California. The closest surface water body is Peralta Creek, located approximately 600 feet northwest of the site. Interstate 580 is located approximately 200 feet west of the site. The site is approximately 190 feet above mean sea level. The following is a summary of events:

March 20, 1991, Exxon conducted a preliminary site assessment that included completing ten soil borings (B1 through B10) between 11.5 and 21.5 feet below grade surface (bgs). Laboratory analysis of soil samples collected from the borings detected TPPHg at up to 440 mg/kg. (IT Corporation 1992)

August 28, 1991, Exxon removed three 8,000-gallon gasoline underground storage tanks (USTs), dispensers, and associated product piping from the site. No holes or leaks were observed in the USTs. Laboratory analysis of soil samples collected from the southeast corner of the UST cavity detected TPPHg at up to 290 mg/kg (10 feet bgs). Laboratory analysis of soil samples collected from the northern dispenser island detected TPPHg at up to 210 mg/kg (3 feet bgs). (IT Corporation 1992)

August 28 and 29, 1991, approximately 1,200 yards of hydrocarbon-impacted soil were excavated from the impacted area of the UST cavity. Laboratory analysis of soil samples collected from the limits of the over-excavation detected TPPHg at up to 5 mg/kg. Three new 12,000-gallon gasoline double-wall fiberglass USTs were installed in the UST cavity. (IT Corporation 1992)

July 14 and 15, 1992, Exxon installed groundwater monitoring wells MW1 through MW3. Laboratory analysis of soil samples collected during drilling did not detect TPPHg at or above the laboratory method detection limit. Laboratory analysis of groundwater samples collected from the borings detected TPPHg at up to 67 µg/l. Exxon initiated quarterly groundwater sampling. (IT Corporation 1992)

April 12, 1994, Exxon submitted a Request and Work Plan for Case Closure to the Alameda County Health Services Department (the County). (RESNA 1994)

May 1995, Exxon requested case closure from the County. Groundwater has been monitored quarterly since July 1992. Petroleum hydrocarbons have not been detected in groundwater samples at or above the laboratory method detection limits in MW1 (historically downgradient) since May 1993 and in MW2 and MW3 since monitoring began. The historical southwesterly groundwater flow direction has shown little change. (EA Engineering 1995)

January 22, 1996, The County has not approved Closure request (EA Engineering telephone log).

January 23, 1997, The County states that closure has been granted but paperwork is not complete (EA Engineering telephone log).

June 18, 1997, Exxon removed one 500-gallon fiberglass used-oil UST and two hydraulic hoists from the site. The used-oil UST and the hoists appeared to be in good condition. Laboratory analysis of soil samples collected from the excavations detected total extractable petroleum hydrocarbons as diesel (TEPHd) at 200 mg/kg, TPPHg at 8.6 mg/kg, motor oil at 680 mg/kg, and hydraulic oil at up to 2,100 mg/kg. (EA Engineering 1997)

October 27, 1999, The County requested that Exxon evaluate the presence of methyl tertiary butyl ether (MTBE) in groundwater.

September 20, 1999, Exxon collected groundwater samples from groundwater monitoring wells MW1, MW2, and MW3 for laboratory analysis. Laboratory analysis of groundwater samples detected TPPHg at up to 75 µg/l and MTBE at up to 1.87 µg/l. (ERI 1999)



## CASE CLOSURE SUMMARY

No further action is recommended at this site, since the site appears to meet the CRWQCB San Francisco Bay region guidelines for a "low risk" soil and groundwater case:

**1. The release mechanism has been stopped and ongoing sources including free product, have been removed or remediated.**

The dispensers, product piping, and the USTs have been removed and replaced. Approximately 1,200 cubic yards of hydrocarbon-impacted soil have been removed.

**2. The site has been adequately characterized.**

The extent of hydrocarbon-impacted soil and groundwater has been adequately characterized at the site through soil and groundwater sampling and analysis.

**3. The dissolved hydrocarbon plume is not migrating.**

Laboratory analytical results of groundwater samples typically do not detect petroleum hydrocarbons at or above the method detection limit, therefore ERI is unable to quantify the stability of the hydrocarbon plume. These laboratory results do indicate that the plume has not migrated.

**4. No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.**

ERI has not performed a sensitive receptor survey, and does not know if there are sensitive receptors in the vicinity of the site likely to be impacted.

**5 & 6. The site presents no significant risk to human health and the environment.**

Recent dissolved hydrocarbon concentrations are below or near laboratory method detection limits, and are below respective MCLs; indicating that the risk to human health and the environment from dissolved hydrocarbons in groundwater is minimal.

### TECHNICAL REPORTS

EA Engineering. June 1995. Final Report of Groundwater Sampling and Analysis and Case Closure Request.

EA Engineering. September 1997. Analytical results for used-oil UST and hydraulic hoist confirmation soil samples.

Environmental Resolutions, Inc. November 1999. Report of Groundwater Monitoring and Sampling during 3<sup>rd</sup> Quarter 1999. ERI job number 247613

IT Corporation. September 1992. Site Assessment Report.

RESNA. April 1994. Request and Work Plan for Case Closure.