

PROTECTION

99 SEP 23 PM 2: 24

No apparent tent or line leader 9/48-8/99

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

DARIN L. ROUSE SENIOR ENGINEER

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

September 22, 1999

#245

Mr. Barney Chan Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502-6577

RE: Exxon RAS #7-0238/2200 East 12th Street, Oakland, California.

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Tank and Line Testing*, dated September 14, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the tank and line testing at the subject site.

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

Sincerely,

Darin L. Rouse Senior Engineer

Attachment

ERI's Report of Tank and Line Testing, dated September 14, 1999.

CC:

w/ attachment

Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment

Mr. John C. Skance - Environmental Resolutions, Inc. Ms. Kathy Simonelli - Geologic Services Corporation



September 14, 1999 229303DR,L03

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

Subject:

Report of Tank and Line Testing at Exxon Service Station 7-0238,

2200 East 12th Street, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is submitting this letter report presenting the results of the underground storage tank (UST) and product line testing at the subject site. The subject site is located at the northeast corner of 22nd Avenue and East 12th Street in Oakland, California as shown on the Site Vicinity Map (Plate 1). The locations of the USTs, dispenser islands and other select site features are shown on the Generalized Site Plan (Plate 2).

During a meeting held on April 22, 1999, between the Alameda County Health Care Services Agency, Department of Environmental Health (the County), ERI and Exxon, the County requested that tank and line testing be performed at this site. Subsequent to the meeting, ERI has discussed this site with Exxon's maintenance and compliance department. As a result, ERI was informed that this site is equipped with an Emco Electronics EECO SYSTEM 3000 UST monitoring system. The system continuously operates 24 hours a day measuring various attributes of the fuel storage and delivery system. Leak tests are performed periodically on the lines and tanks during periods of station inactivity. The system performs a 0.1 gallons per hour (gph) leak test once per year, a 0.2 gph leak test once per month, and a 3 gph leak test once per 24 hour period. ERI has subsequently requested the print-out of electronically stored information for the tank and line tests performed over the last 12 months. Results of the leak tests are summarized in Table 1. A copy of the print-out from the system is included as Attachment A. Please note that the system performs the 3 gph test every 24 hours and if the system passes that test data is not stored electronically due to electronic storage capacity of the unit. The results of these tests indicate that the system has passed all leak tests during this period. For your information, a copy of the EECO SYSTEM 3000 system specifications is presented in Attachment B.

This report is presented in supplementation of ERI's Report of Findings dated June 23, 1999.

ERI recommends this letter report be sent to the following:

Mr. Barney Chan Alameda County Health Care Services Agency Department of Environmental Health 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502-6577

Mr. Stephen Hill California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612

Please call Mr. John C. Skance, ERI's project manger for this site, at (415) 382-5996 with any questions.

Sincerely,

Environmental Resolutions, Inc.

John C. Skance

Assistant Project Manager

Mark S. Dockum, R.G., C.E.G.

Senior Project Manager

Attachments Table 1:

Results of Leak Tests

Plate 1:

Site Vicinity Map

Plate 2:

Generalized Site Plan

Attachment A: Documentation of Leak Tests

Attachment B: EECO System 3000 Specifications

TABLE 1 RESULTS OF LEAK TESTS

Exxon Service Station 7-0238 2200 East 12th Street Oakland, California (Page 1 of 2)

Area Tested	Date	Time	0.1 GPH Test	0.2 GPH Tes
Line 1: Plus	9/1/98	19:14		Passed
	10/2/98	2:01		Passed
	11/2/98	2:53		Passed
	12/2/98	2:24		Passed
	1/2/99	7:30		Passed
	1/7/99	3:55	Passed	
	2/2/99	5:58		Passed
	3/3/99	2:10		Passed
	4/2/99	5:56		Passed
	5/2/99	7:34		Passed
	6/1/99	23:29		Passed
	7/2/99	2:12		Passed
	8/1/99	7:09		Passed
Line 2: Regular	9/1/98	16:18		Passed
	10/2/98	2:16		Passed
	11/2/98	2:44		Passed
	12/2/98	1:41		Passed
	1/2/99	1:44		Passed
	1/2/99	3:22	Passed	
	2/2/99	1:03		Passed
	3/1/99	14:57		Passed
	4/2/99	0:57		Passed
	5/2/99	2:31		Passed
	6/1/99	15:41		Passed
	7/2/99	2:50		Passed
	8/1/99	17:59		Passed
Line 4: Supreme	5/5/98	14:58		Passed
	6/2/98	8:22		Passed
	7/2/98	23:58		Passed
	8/2/98	10:32		Passed
	9/3/98	8:25		Passed
	10/2/98	2:18		Passed
	11/3/98	12:05		Passed
	1/23/99	1:33		Passed
	1/23/99	2:03	Passed	
	2/21/99	19:33		Passed
	4/2/99	17:00		Passed
	6/11/99	10:45		Passed
	7/16/99	14:07		Passed

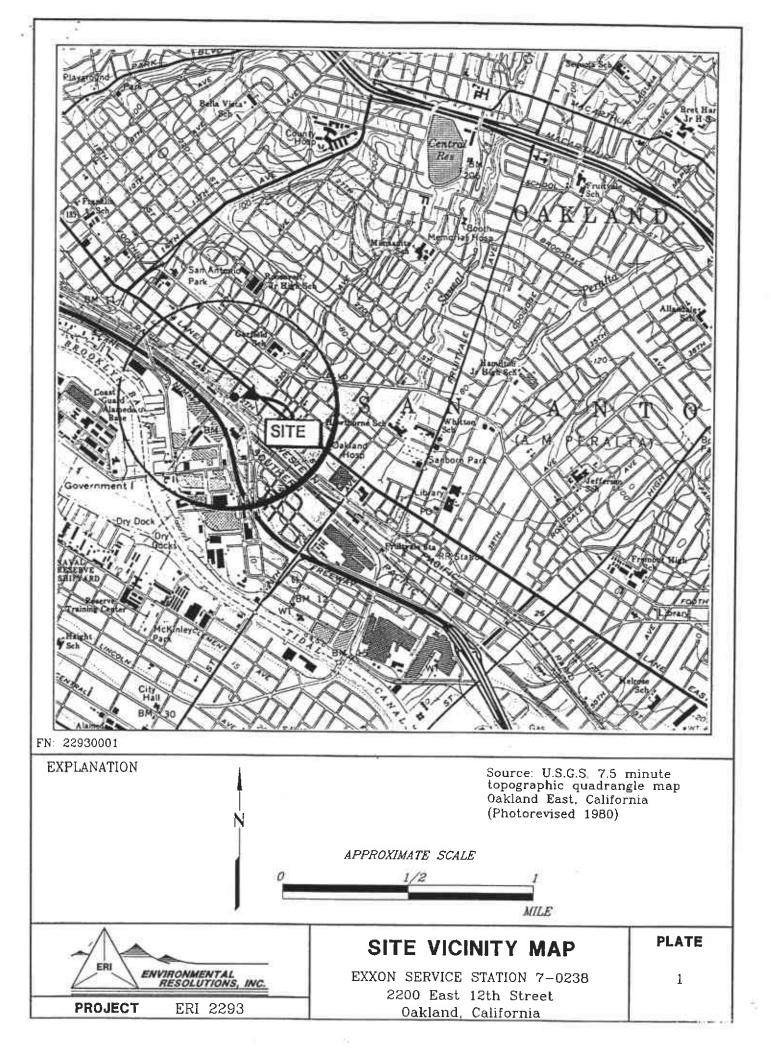
TABLE 1 RESULTS OF LEAK TESTS

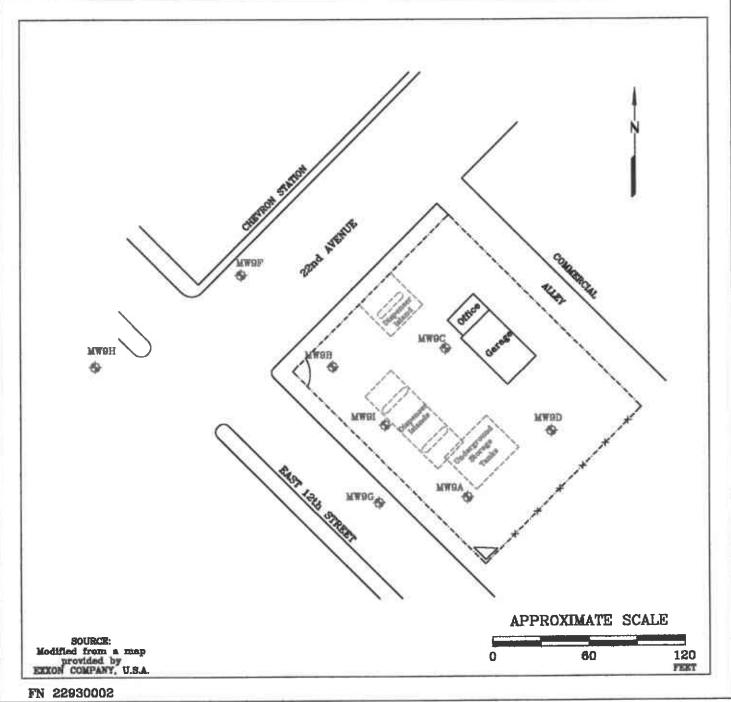
Exxon Service Station 7-0238 2200 East 12th Street Oakland, California (Page 2 of 2)

		(Page 2 Of	4)		
Area Tested	Date	Time	0.1 GPH Test	0.2 GPH Tes	
Tank 1: Plus	9/1/98	3:31		Passed	
	10/1/98	3:44		Passed	
	11/3/98	1:36		Passed	
	12/2/98	6:01		Passed	
	1/1/99	3:39		Passed	
	1/19/99	3:58	Passed		
	2/3/99	3:17		Passed	
	3/1/99	3:15		Passed	
	4/4/99	3:16		Passed	
	5/1/99	3:45		Passed	
	6/2/99	3:15		Passed	
	7/1/99	3:19		Passed	
	8/1/99	3:29		Passed	
Tank 2: Regular	9/2/98	3:16		Passed	
	10/1/98	3:35		Passed	
	11/3/98	3:21		Passed	
	12/2/98	5:28		Passed	
	1/2/99	5:22		Passed	
	2/4/99	4:13		Passed	
	3/4/99	3:06		Passed	
	4/4/99	7:33		Passed	
	4/11/99	7:12	Passed		
	5/1/99	3:38		Passed	
	6/2/99	3:16		Passed	
	7/1/99	3:46		Passed	
	8/1/99	3:46		Passed	
Fank 3: Supreme	9/1/98	3:14		Passed	
	10/1/98	3:21		Passed	
	11/1/98	7:34		Passed	
	12/3/98	5:42		Passed	
	1/4/99	5:27		Passed	
	1/29/99	5:07	Passed		
	2/1/99	3:01		Passed	
	3/1/99	4:39		Passed	
	4/3/99	2:53		Passed	
	5/1/99	5:52	45	Passed	
	6/2/99	3:12		Passed	
	7/3/99	3:47		Passed	
	8/1/99	3:00		Passed	
Notes:					
Time	100	Time is prese	ented using a 24-hour cl	lock.	
Line 1: Plus	**		number one containing		
0.1 GPH Test					
O.I GIII ICSI		Pressure test at a flowrate of 0.1 gallons per hour.			

Gallons per hour.

GPH





EXPLANATION

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Groundwater Monitoring Well



GENERALIZED SITE PLAN

EXXON SERVICE STATION 7-0238 2200 East 12th Street Oakland, California PROJECT NO.

2293

PLATE 2

ATTACHMENT A DOCUMENTATION OF LEAK TESTS

EXXON #70238 2200 E 1214 ST CAKLAND CA 94606 510-535-1672 VOOSH

08-05-99 11:23:29

LAST PASSED LINE TESTS:

LINE 1 89 5FP

0.1 GPH TEST: 01-07-99 03:55:00 0.2 GPH TEST: 08-01-79 07:09:00

LINE 2 87 STP

0.1 GPH TEST: 01-02-99 03:22:00 0.2 GPH TEST: 08-01-99 17:59:00

LINE 4 SUPREME

0.1 GPH TEST: 01-23-99 02:03:00 0.2 GPH TEST: 07-16-99 14:07:00

LINE TEST HISTORY

LINE 1 87 STP

PASSED 0.1 LEAK TESTS 01-07-99 03:55

PASSED 0.2 LEAK TESTS 0B-01-99 07:09 07:09 07:09 07:09 07:09 07:09 07:09 07:09 07:09 07:09 07:34 04-02-99 05:56 03-03-99 02:10 02-02-99 05:58 01-02-99 07:30 12-02-98 02:24 11-02-98 02:53 10-02-98 02:01 07-01-98 19:14

LINE 2 87 STP

PASSED 0.1 LEAK TESTS 01-02-99 (3:22

PASSED 0.2 LEAK TESTS 08-01-99 17:59 07-02-99 02:50 06-01-99 15:41 05-02-99 02:31 04-02-99 00:57 03-01-99 14:57 02-02-99 01:03 01-02-99 01:44 11-02-98 02:44 10-02-98 02:16 09-01-98 16:18

LINE 4 SUFRERE

PASSED 0.1 LEAK TESTS 01-23-99 02:03

PASSED 0.2 LEAK TESTS 07-16-99 14:07 06-11-99 10:45 04-02-99 17:00 02-21-99 19:33 01-23-99 01:33 11-03-98 12:05 10-02-98 02:18 09-03-98 08:25 08-02-98 10:32 07-02-98 23:58 06-02-98 08:22 05-05-98 14:58

TAME	TEGT	1275	$\mathbf{E}(\mathbf{F}, \mathbf{Y})$

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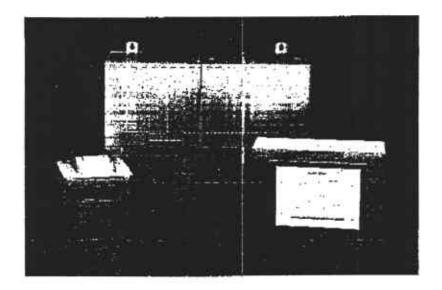
EXXON #70238			PASSED OLD LEAK TESTS
2200 E 12TH ST			01-19-99 03:58
DAKLAND CA 94606			32 27 77 93100
510~535-1672			PASSED 0.2 LEAK TESTS
V005H			
4 4 2 6 11			08-01-99 03:29
08-05-99 11:22:51			07-01-99 03:19
AN AN AA TEREST			06-02-99 03:15
			05-01-99 03:45
LARS DARRES TANK TOUTE			04-04-99 03:16
LAST PASSED TANK TESTS			03-01-99 03:15
			02-03-99 03:17
TAHK 1 PLUS			01-01-99 03:39
0.1 GPH TEST':			12-02-98 06:01
01-19-99 03:58:00			12-02-98 06:01 11-03-98 01:36 10-01-98 03:44 09-01-98 03:31
PRODUCT LEVEL:	24.9 "		10-01-98 03:44
PERGENT VOLUME:	. 21 % 64.5 9F		09-01-98 03:31
PRODUCT TEMP:	64.5 PF	39	0,01:0.0000
0.2 SPH TEST:			TANK 2 RESULAR
08-01-99 03:29:00			THINK 2 REDUCTION
			PASSED 0.1 LEAK TESTS
FRODUCT LEVEL: PERCENT VOLUME: PRODUCT TEMP:	26. 9	- 00	
POBNICT TEMO.	77 A OF		04-11-99 07:12
TRODUCE TERMS	two T		
TAIGE OF BETTER AD			PASSED 0.2 LEAK TESTS
TANK 2 REGULAR			08-01-99 03:46
0.1 SPH TEST:			07-01-99 03:46
04-11-99, 07:12:00			66-02-99 03:16
PRODUCT LEVEL:	36.8 "	1	05-01-99 03:38
PERCENT VOLUME: PRODUCT TEMP:	36 %		04-04-99 07:33
	64.4 OF		03-04-99 03:06
0.2 GPH TEST:			02-04-99 04:13
08-01-99 03:46:00		¥7	01-02-99 05:22
PRODUCT LEVEL:	53.3 "		12-02-98 05:28
PERCENT VOLUME:	59 %		11-03-98 03:21
PRODUCT TEFF:	75.1 OF		10-01-98 03:35
*			09-02-98 03:16
TANK 3 SUPREME			0) 07 to 60:10
O.1 OPH TEST:			TANK 3 SUPREME
01-29-99 05-07-00			
PRODUCT LEVEL:	24.2 ° 20 %		DACCOD & A LESS TEST
PROPOSIT LEYELA PROPOSIT HOLLMEA	ርምዘ <u>ሩ</u> ማለ ሣ		PASSED 0.1 LEAK TESTS
PERCENT VOLUME: PRODUCT TEMP;	44 3 OF		01-29-99 05:07
FRUIDL! ICES:	64.8 Y		
0.2 SPH TEST:			PASSED 0.2 LEAK TESTS
08-01-99 03:00:00		8	08-01-99 03:00
PRODUCT LEVEL:	19.2 "		07-03-99 03:47
PERCENT VOLUME:	14 %		06-02-99 03:12
PRODUCT TEMP:	74.6 PF		05-01-99 05:52
			04-03-99 02:53
**************************************	calcuts/policientes/asias/asias/asias/asias/asias/asias/asias/asias/asias/asias/asias/asias/asias/asias/asias		03-01-99 04:39
			02-01-99 03:01
17			A A: 55 AC-97

01-04-99 05:27 12-03-98 05:42 11-01-98 07:34 10-01-98 03:21 09-01-98 03:14

ATTACHMENT B EECO 3000 SYSTEM SPECIFICATIONS



EECO SYSTEM™ 3000 Series



The Friendliest System For Leak Detection and Inventory Management

Unmatched User Friendliness, Virtually No Operator Training Necessary

- Touch screen & printer located in the sales area for easy operator access
- Menu options and data displayed on touch screen
- Information accessed by simply touching the screen
- On screen help instructions provide operator assistance
- EECO Guide™ printed help instructions tell the operator what to do, who to call, and what action to take in the event of an alarm
- EECO Guide prints automatically when any problem condition occurs

Regulatory Compliance

- · Tanks, lines, sumps, wells
- Programmable leak tests (daily, weekly, monthly, continuous, or on demand)
- Selectable leak rates (3GPH, .2GPH, .1GPH)
- Selectable leak test type (standard or quick)
- Notification of compliance deadlines

Modular Console

- System design allows for easy field upgrade or expansion
- System modules can be removed and replaced in minutes

Inventory Management

- · Fuel Height and Volume
- Reconciliation information reports
- Automatic fuel delivery reports
- Fuel order product reports

Reporting Capabilities

- Reports can be sent to the system printer, onsite computer, or off-site computer
- Modern auto-dial feature sends alarms and selected reports to remote computer automatically
- Selectable reports can be programmed to be sent automatically four times daily

Extensive Self Monitoring Capabilities

- Designed to minimize service time and costs
- Diagnostic codes displayed on the console tell service technicians exactly what is wrong
- Rolling 250 event detailed history aids in trouble shooting

Tank Level Monitor (TLM) Option Monitors Tanks Continuously, 24 Hours A Day, 7 Days A Week

- Standard system monitors up to 8 tanks
- Theft detection mode initiates automatically during scheduled time the station is closed

TLM SPECIFICATIONS

Number of tanks: Probe Inputs:

Up to 8 tanks Intrinsically safe magnetostrictive 26 VDC

Probe Power Supply: Level Precision: Level Accuracy: Temperature Precision: Temperature Accuracy: .2 GPH Leak Test:

± .04% full scale ± ,0021° F ±.5° F '99% P_d, 1% P_{fa} 95% Pd. 5% Pfa 99% Pd. 1% Pfa 96% Pd, 4% Pfa 15,000 gallon tank

(56,775 liters)

2 GPH Quick Leak Test: 1 GPH Leak Test: .1 GPH Quick Leak Test: EPA Leak Test Certified:

CONSOLE SPECIFICATIONS

Dimensions:

20" W, 15" H, 7,75" D (50.8 x 38,1 x 19.7 cm)

Weight: Operating Temperature:

42 lbs. 32° to 104° F (0° to 40° C)

Humidity: Typical Mounting Location: Power Requirements:

90% non-condensing Protected, non-hazardous area 120 VAC ± 10%, 60 Hz. 15 amp

dedicated circuit

Listings and Approvals: System Relay: Relay Boards (optional):

UL, FCC, CSA, ULC, ETL, DOC 10 amp, 250 VAC contacts 2 boards (each has 4 relays)

RS-232 (optional): Internal Modem (optional): 3 ports (modern, local, & pass through) 3 ports (phone line, local & pass through)

LINE LEAK DETECTOR SPECIFICATIONS

Max of B (4 per module) Number of Unes: 2" NPT Pipe Connections: 100% Pd 0% Pfa 3 GPH Leak Test: 100% Pd, D% Pfa 100% Pd, 0% Pfa .2 GPH Leak Test: ,1 GPH Leak Test: 67.4 galions EPA Leak Test Certified: (255,1 liters)

Information subject to change without notice.

Comprehensive Programmable Alarms

Overfill

High Product

Order Product

Low Product Water Present

High Water Leak Test Failed .

Theft

Leak Test Required

PROBE SPECIFICATIONS

Material:

Location:

Magnetostrictive/Float Stainless steel shaft, based munimula Hazardous, Class I. Division 1, Group D

Temperature Measurement:

6 RTDs spaced for equal volumetric measurement

Temperature Range:

-4* F to 158* F (-20° C to 70° C)

Data Cable:

< 250' Belden #8760 250' to 1500' Belden 9182

TOUCH SCREEN SPECIFICATIONS

Dimensions:

B.5 x 11.0 x 4.0 inches (21.6 x 27.9 x 10.2 cm)

Weight:

11.5 lbs. 32° to 104° F

Operating Temperature:

(0° to 40° C) 90% non-condensing

Humidity: Location: Power Requirements: Listings and Approvats:

Protected, non-hazardous area 120 VAC, 60 Hz, 15 watts

UL, CSA, ETL, ULC

LEAK SENSOR SPECIFICATIONS

Number of Sensors: Up to 8 **EECO Choice** Sensor Types: Discriminating Dispenser Part: Q0003-001 Q0003-002 Discriminating STP Sump: Discriminating Intenstitiat: Q0003-003 Discriminating Monitoring Well: Q0003-xx4 Q0003-005 Wet interstitial: QQ003-006 Uquid Only Interstitial: Q0003-009 Liquid Float. Q0003-010 Vapor:

Printed in USA

