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exxon0993

**EXXON COMPANY, U.S.A.**  
**QUARTERLY STATUS REPORT**  
 July - September 1993  
October 4, 1993  
 (Page 1 of 2)

RAS #7-3399  
 2991 Hopyard Road  
 Pleasanton, California  
 Job No: 130009

**Work Performed During This Quarter**

**July through September 1993**

- o Submit final report for second quarter 1993 Quarterly Monitoring to Exxon August 2, 1993.
- o Performed bi-weekly monitoring on July 2, July 15, July 31, August 15, August 27, and September 15, 1993.
- o Collected influent and effluent air samples for laboratory analysis of TPHg and BTEX from the interim vapor extraction and remediation system on September 15, 1993
- o Performed quarterly monitoring third quarter 1993 on September 24, 1993.

**Groundwater Sampling (sampled 4/12/93) Results: (ug/L)**

<u>Well</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>Historical Trends</u>
MW-1			Well Inaccessible			
MW-2			Well Destroyed			
MW-3			Well Destroyed			
MW-4	360	20	10	22	80	Decreased
MW-5d	<50	1.0	1.0	2.5	7.4	Not Applicable
MW-5s	220	11	5.9	13	48	Not Applicable
MW-6			Well Destroyed			
MW-7			Not Sampled			
MW-8	230	26	7.3	11	38	Increased
MW-9			Well Dry			
MW-10	350	21	11	21	75	Not Applicable
MW-11	<50	<0.5	<0.5	<0.5	<0.5	Not Applicable

**Free Phase Product Recovery**

Not Applicable

exxon0993

**EXXON COMPANY, U.S.A.**  
**QUARTERLY STATUS REPORT**  
July - September 1993  
October 4, 1993  
(Page 2 of 2)

RAS #7-3399  
2991 Hopyard Road  
Pleasanton, California  
Job No: 130009

**Work to be Performed Next Quarter**

Estimated Completion Date 12/31/93

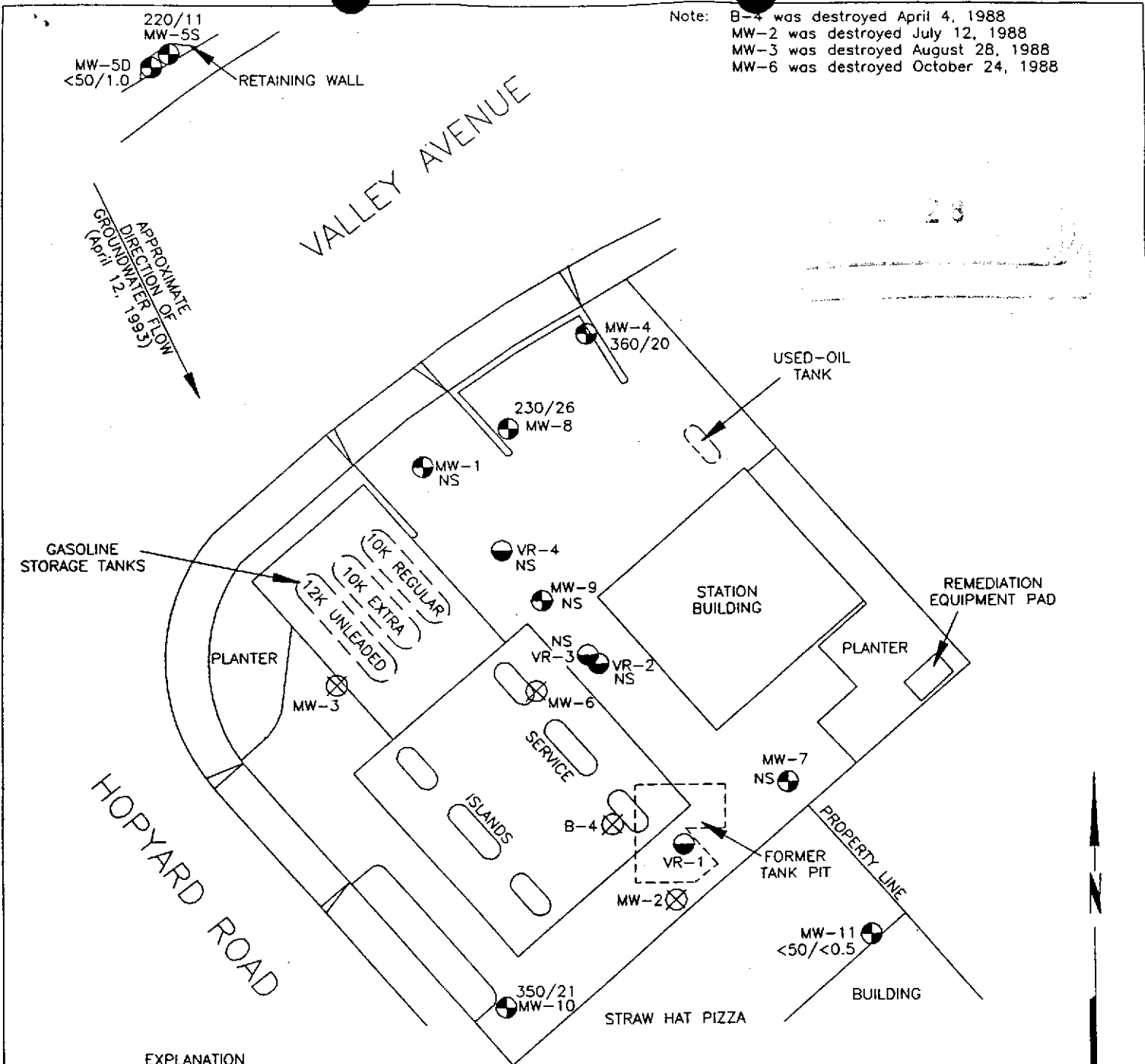
- Submit final report for third quarter 1993 Quarterly Monitoring to Exxon.
- Continue with bi-weekly monitoring of the carbon system, if any carbon breakthrough should occur, change out the carbon canisters.
- Perform quarterly monitoring for the fourth quarter 1993 on November 10, 1993.
- Submit final report for fourth quarter 1993 Quarterly Monitoring to Exxon.

**Work to be Performed Next 12 Months**

Estimated Completion Date 09/30/94

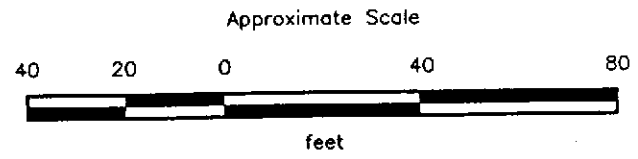
- Continue monthly monitoring and quarterly groundwater sampling program to evaluate the trends of gasoline hydrocarbons and groundwater gradient in first encountered groundwater below the site.
- Continue with bi-weekly monitoring of the carbon system, if any carbon breakthrough should occur, change out the carbon canisters.

Note: B-4 was destroyed April 4, 1988  
 MW-2 was destroyed July 12, 1988  
 MW-3 was destroyed August 28, 1988  
 MW-6 was destroyed October 24, 1988



**EXPLANATION**

- MW-11 = Monitoring well (RESNA, April, May, and July 1988; October 1989)
- VR-4 = Vapor recovery well (RESNA, October 1989)
- MW-6 = Destroyed well
- 360/20 = Concentration of TPHg/Benzene in groundwater in parts per billion, April 12, 1993
- NS = Not sampled
- NA = Not accessible



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989.  
 Revised January 22, 1990.



**GENERALIZED SITE PLAN**  
 Exxon Station 7-3399  
 2991 Hopyard Road  
 Pleasanton, California

**PLATE**  
 1

PROJECT 130009.01

1300091T

**EXXON COMPANY, U.S.A.**  
**QUARTERLY STATUS REPORT**  
 July - September 1993  
 October 4, 1993  
 (Page 1 of 2)

RAS #7-7003  
 349 Main Street  
 Pleasanton, California  
 Job No: 130015

**Work Performed During This Quarter**

**July through September 1993**

- o Performed a vapor extraction test (VET) on the three vapor-extraction wells on August 5, 1993;
- o Submitted final report for Second Quarter 1993 Quarterly Monitoring to Exxon on August 2, 1993.
- o Performed quarterly monitoring third quarter 1993 on September 22 and 23, 1993.
- o Initiated preparation of the Interim Remedial Action Plan.

**Groundwater Sampling (sampled June 8 and 9, 1993) Results: (ug/L)**

<u>Well</u>	<u>TPHg</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Total Xylenes</u>	<u>VOCs</u>	<u>Historical Trends</u>
MW-1	7,500	42	32	970	720	1.8 <sup>1</sup> 0.8 <sup>2</sup> 1.0 <sup>3</sup>	Decreased
MW-2	160	0.5	3.3	5.7	2.0	NA	Decreased
MW-3	<50	0.6	0.9	3.4	2.8	NA	Increased
MW-4	<50	0.7	0.9	0.7	<0.5	0.6 <sup>3</sup>	Decreased
MW-5	<50	<0.5	<0.5	<0.5	<0.5	NA	Decreased
MW-6	<50	0.6	0.7	1.7	1.8	NA	Increased
MW-7	<50	<0.5	0.8	<0.5	<0.5	NA	Decreased
MW-8	65	<0.5	1.1	0.8	1.7	NA	Not Applicable
VE-1	5,800	<5.0	15	830	500	NA	Not Applicable
VE-2	7,000	10	18	900	340	NA	Not Applicable
VE-3	130	3.1	3.1	18	15	NA	Not Applicable

- <sup>1</sup> Chloroform
- <sup>2</sup> Tetrachloroethene
- <sup>3</sup> 1,2-Dichloroethane

**Free Phase Product Recovery**

Not Applicable

23  
exxon0993

**EXXON COMPANY, U.S.A.  
QUARTERLY STATUS REPORT**

July - September 1993

October 4, 1993

(Page 2 of 2)

RAS #7-7003  
349 Main Street  
Pleasanton, California  
Job No: 130015

**Work to be Performed Next Quarter**

Estimated Completion Date 12/31/93

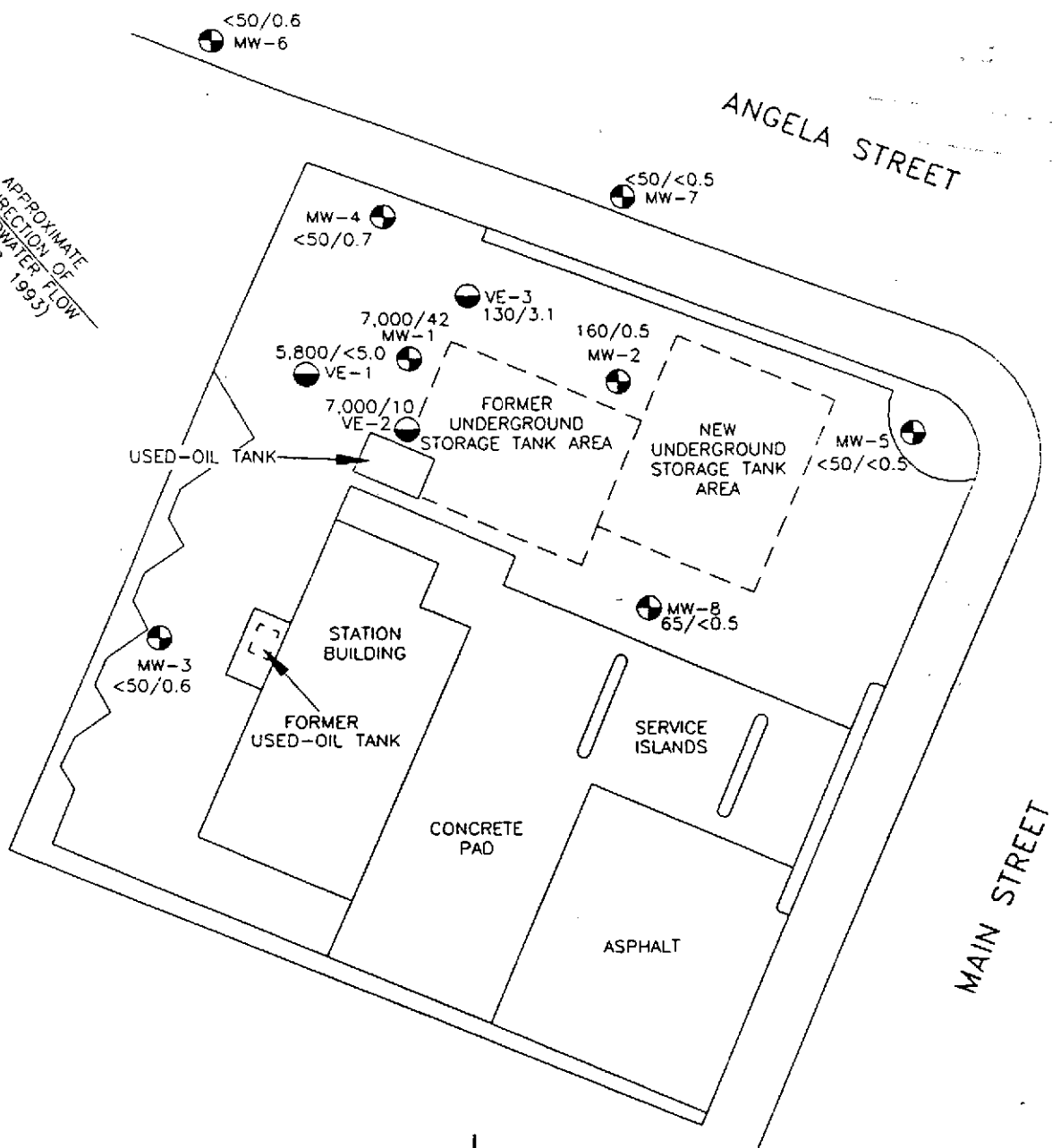
- o Submit final report for third quarter 1993 Quarterly Monitoring to Exxon.
- o Submit final Interim Remedial Action Plan to Exxon.
- o Submit final Additional Investigation report to Exxon.
- o Submit final report for third quarter 1993 Quarterly Monitoring to Exxon.
- o Perform quarterly monitoring for the fourth quarter 1993 on November 15 and 16, 1993.
- o Submit final report for fourth quarter 1993 Quarterly Monitoring to Exxon.

**Work to be Performed Next 12 Months**

Estimated Completion Date 09/30/94

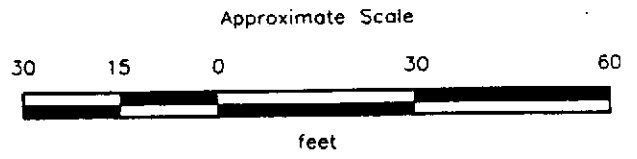
- o Continue quarterly groundwater monitoring and sampling program to evaluate the trends of gasoline hydrocarbons and groundwater gradient in first encountered groundwater below the site.

APPROXIMATE  
DIRECTION OF  
GROUNDWATER FLOW  
(June 8, 1993)



**EXPLANATION**

- MW-8 = Monitoring well
- VE-3 = Vapor extraction well
- 7,500/42 = Concentration of TPHg/Benzene in groundwater in ppb, June 8 and 9, 1993



Source: Surveyed by Ron Archer Civil Engineer, Inc.,  
June 1990 and April 1991.



**PROJECT 130015.01**

**GENERALIZED SITE PLAN  
Exxon Station 7-7003  
349 Main Street  
Pleasanton, California**

**PLATE  
1**

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

July 28, 1993

0610MGUE

130009.01

Ms. Marla D. Guensler  
Exxon Company U.S.A.  
2300 Clayton Road, Suite 1250  
P.O. Box 4032  
Concord, California 94520

Subject: Letter Report on Second Quarter 1993 Groundwater Monitoring and Remediation Activities, at Exxon Station 7-3399, 2991 Hopyard Road, Pleasanton, California.

Ms. Guensler:

As requested by Exxon Company U.S.A. (Exxon), this letter report summarizes the methods and results of the second quarter 1993 groundwater monitoring and remediation activities performed by RESNA Industries Inc. (RESNA) at the above-subject site. The Exxon station is located at the eastern corner of the intersection of Hopyard Road and Valley Avenue in Pleasanton, California as shown on Plate 1, Site Vicinity Map. The site is bounded on the northwest by Valley Avenue; on the southwest by Hopyard Road; on the northeast by a shopping center parking lot owned by Lucky Stores, Inc., of Dublin, California; and on the southeast by an access drive and Straw Hat pizza parlor owned by Mr. Ralph Henderlong of Alamo, California.

The objectives of this quarterly monitoring are to evaluate trends in the groundwater gradient and flow direction, and trends in concentrations of gasoline hydrocarbons in the local groundwater associated with former and existing gasoline underground storage tanks (USTs) at the site. Remediation activities at this site currently consists of vapor extraction to reduce gasoline hydrocarbons in the subsurface soils.

Prior to the present monitoring, RESNA and others performed environmental investigations and subsequent limited subsurface investigations related to the removal and replacement of three gasoline USTs and one used-oil UST in July 1988. The results of these investigations are presented in the reports listed in the references section. Quarterly groundwater monitoring began in April 1988, after RESNA (formerly Applied GeoSystems [AGS]) completed a limited subsurface environmental investigation (AGS, April 22, 1988).

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

### Site Setting and Background

The gasoline USTs in the southeastern portion of the site were removed and replaced in July 1988. The original service station on the site was demolished in September 1988, and new station facilities were constructed between September 1988 and February 1989. The new station facility is occupied by four gasoline USTs that contain premium unleaded, super-regular unleaded, regular unleaded gasoline, and used-oil (Plate 2, Generalized Site Plan).

Of the twelve original monitoring wells, nine wells are currently used to monitor groundwater at the site. Seven of the existing wells (MW-1, MW-4, MW-5s, MW-7, MW-9, MW-10, and MW-11) are screened in the first water-bearing unit beneath the site, well MW-5d is screened in the second water-bearing unit, and well MW-8 is screened in the third water-bearing unit. Monitoring wells MW-2, MW-3, and MW-6 were destroyed in 1988.

Prior to the recent drought, a groundwater recovery system was in operation at the site between 1988 and 1990, and consisted of pumping groundwater from well MW-7 (first water-bearing unit), passing it through an oil-water separator, and discharging the treated groundwater into the sanitary sewer under a permit from the Dublin-San Ramon Services District. It is anticipated that groundwater recovery from well MW-7 will continue once sufficient water has recharged in the first water-bearing unit.

On March 10, 1992, the existing vapor treatment system was modified to a vacuum pump and vapor-phase activated carbon system, permitted under Authority to Construct No. 7845, dated January 8, 1992 and Permit to Operate dated October 9, 1992. Start-up of the vapor-phase carbon system was initiated on October 12, 1992.

### Groundwater Sampling and Gradient Evaluation

Monthly depth-to-water (DTW) levels were measured in monitoring wells MW-1, MW-4, MW-5d, MW-5s, and MW-7 through MW-11 on April 12 and June 1, 1993, and quarterly sampling was performed on April 12, 1993. Because wells MW-1 and MW-9 are coupled to the vapor extraction system, they are inaccessible for groundwater sampling. Well MW-7 was not accessible for purging and sampling due to the presence of a pump in the well. Field work at the site consisted of measuring DTW levels in the groundwater monitoring wells, subjectively analyzing water from the wells for the presence of free-phase hydrocarbons, and purging and sampling the groundwater from wells MW-4, MW-5d, MW-5s, and MW-8. Wells MW-10 and MW-11 were not purged due to insufficient water, but grab water samples were collected. Groundwater sampled collected from wells MW-4, MW-



Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

5s, and MW-8 are considered grab water samples due to low purge volumes. Field methods are described in Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheets.

### Results of Groundwater Monitoring

RESNA calculated groundwater elevations for each well by subtracting the measured DTW from the elevation of the wellhead. The measured DTW levels, wellhead elevations, and groundwater elevations for this and previous monitorings at the site are summarized in Table 1, Cumulative Groundwater Monitoring Data.

Based on DTW measurements taken between April and June 1993 from wells in the first water-bearing unit, water levels have decreased approximately 0.3 feet in wells MW-1 and MW-5s, and have increased an average of 0.5 feet in wells MW-4, MW-7, and MW-11 since last quarter. The water level in wells MW-5d (second water-bearing unit) and MW-8 (third water-bearing unit) has increased approximately 6 feet since last quarter.

Based on the April 12, 1993, groundwater elevation data, the interpreted local groundwater gradient and flow direction of the shallowest water-bearing unit is approximately 0.02 toward the south-southeast. Based on the June 1, 1993, groundwater elevation data, the interpreted local groundwater gradient and flow direction of the shallowest water-bearing unit is approximately 0.02 toward the south. These flow directions are generally consistent with the south-southwest flow direction interpreted for February 1993.

No evidence of free-phase hydrocarbons was observed in the water samples collected for subjective analysis from wells MW-4, MW-5d, MW-5s, MW-8, MW-10 and MW-11. Results of the subjective analyses are summarized in Table 1, Cumulative Groundwater Monitoring Data.

Wells MW-4, MW-5d, MW-5s, and MW-8 were purged and sampled in accordance with the groundwater sampling protocol included in Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheets. Well purge data sheets reporting the monitored parameters, temperature, pH, conductivity, and turbidity, are also included in Appendix A.

### Results of Laboratory Analysis

The groundwater samples from monitoring wells MW-4, MW-5d, MW-5s, MW-8, MW-10, and MW-11 were analyzed by Pace Incorporated laboratories (California State Certification Number 1282) in Novato, California for total petroleum hydrocarbons as gasoline (TPHg) and the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8015/8020. The

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

chain of custody record and laboratory analysis sheets are included in Appendix B, Laboratory Analysis Reports and Chain of Custody Record. The results of this and previous groundwater analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples.

Results of this quarter's laboratory analyses of groundwater samples from wells MW-4, MW-5d, MW-5s, MW-8, MW-10, and MW-11 indicate:

- TPHg and BTEX was not detected in well MW-11;
- TPHg was detected in wells MW-4, MW-5s, MW-8, and MW-10 at concentrations ranging from 220 parts per billion (ppb) (MW-5s) to 360 ppb (MW-4), and was not detected in well MW-5d;
- benzene was detected in wells MW-4, MW-5d, MW-5s, MW-8, and MW-10 at concentrations ranging from 1.0 ppb (MW-5d) to 26 ppb (MW-8). The concentrations in these wells are equal to or greater than the Department of Health Services (DHS) Maximum Contaminant Level (MCL) of 1.0 ppb benzene in drinking water;
- toluene, ethylbenzene, and total xylenes were detected in wells MW-4, MW-5d, MW-5s, MW-8, and MW-10 at concentrations that are less than the DHS Drinking Water Action Level (DWAL) of 100 ppb toluene, and MCLs of 680 ppb ethylbenzene and 1,750 ppb total xylenes in drinking water.

## INTERIM SOIL REMEDIATION

### Soil-Vapor Extraction System

Field organic vapor concentrations are being monitored using a FID (Flame Ionization Detector) and a PID (Photoionization Detector) at the system influent, effluent, and in-between canisters as indicated in a letter to the Bay Area Air Quality Management District (BAAQMD) [RESNA, December 3, 1992]. Monitoring and carbon changeouts are being performed in accordance to the BAAQMD permit to operate conditions for this system. Cumulative results of field organic vapor measurements are summarized in Table 3.

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

During this quarter, the influent organic vapor concentrations have ranged from 0.7 to approximately 5.0 ppm and the effluent concentrations were consistently 0.0 ppm (Table 3, Cumulative Results of Field Organic Vapor Measurements). The influent organic vapor concentrations this quarter appear to be generally lower than first quarter, 1993, results and appear to be continually decreasing with time. Carbon changeout has been occurring approximately every 30 days prior to January 21, 1993 as summarized in Table 3. There has been two carbon changeout events between January 21, 1993 and the present. This indicates a reduction of influent organic vapor concentrations. Approximately 1.2 lbs (19 gallons) of TPHg has been recovered this quarter.

Beginning February 16, 1993, the system has been alternately turned on and off (pulsed) approximately every two weeks. Organic vapor levels have been measured at each of the onsite vapor wells and any dry groundwater monitoring wells. The system is being pulsed to evaluate whether the lowered levels of organic vapor concentrations measured in the past few months are representative of the subsurface soils, and whether the system is efficiently removing gasoline hydrocarbons from beneath the site. As influent concentrations decrease, it is expected that the influent stream flowrate can be increased to the maximum organic vapor concentration loading rate allowed into the system without resulting in frequent carbon changeouts. The system influent flowrate can be increased by opening the valves further on the vapor extraction wells. Field monitoring of the carbon system will continue bi-weekly. If continued pulsing of the system results in consistently lower organic vapor concentrations, RESNA will submit a request to BAAQMD to perform less frequent field monitoring.

### Limitations

This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company U.S.A. and any reliance on this report by third parties shall be at such party's sole risk.

Copies of this report should be forwarded to:

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

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

Mr. Jerry Killingstad  
Alameda County Flood Control  
and Water Conservation District (Zone 7)  
5997 Parkside Drive  
Pleasanton, California 94566

Mr. Steve Cusenza  
City of Pleasanton Public Works Department  
P.O. Box 520  
Pleasanton, California 94566-0802

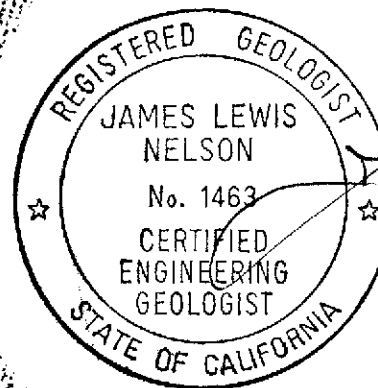
Mr. Rick Mueller  
Pleasanton Fire Department  
4444 Railroad Street  
Pleasanton, California 94566

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

Sincerely,  
RESNA Industries Inc.

*Jeanne Buckthal*  
Jeanne Buckthal  
Geologic Technician

*Naresh Channaveerappa*  
Naresh Channaveerappa  
Staff Engineer



*James L. Nelson*  
James L. Nelson  
C.E.G. No. 1463

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

Enclosures: References

- Plate 1: Site Vicinity Map
- Plate 2: Generalized Site Plan
- Plate 3: Groundwater Gradient Map (April 12, 1993)
- Plate 4: Groundwater Gradient Map (June 1, 1993)
- Plate 5: TPHg Concentrations in Groundwater
- Plate 6: Benzene Concentrations in Groundwater
  
- Table 1: Cumulative Groundwater Monitoring Data
- Table 2: Cumulative Results of Laboratory Analyses of Groundwater Samples
- Table 3: Cumulative Results of Field Organic Vapor Measurements
- Table 4: Cumulative Results of Influent and Effluent Vapor Samples
  
- Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheet
- Appendix B, Laboratory Analysis Reports and Chain of Custody Record

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

**REFERENCES**

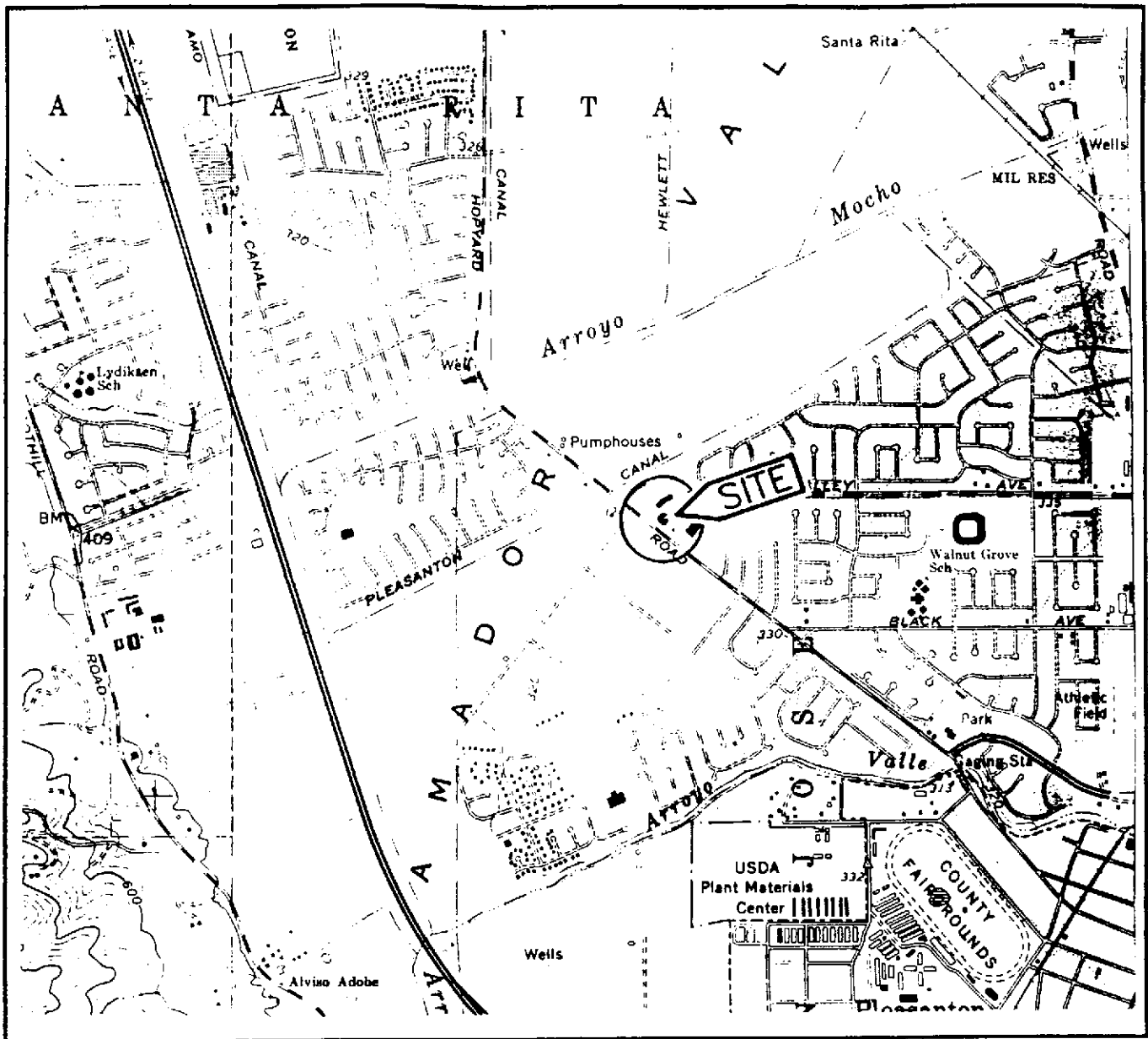
- Applied GeoSystems. April 22, 1988. Report, Soil Vapor Investigation, Drilling of Soil Borings, and Installation of Groundwater Monitoring Wells at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-1.
- Applied GeoSystems. July 15, 1988. Report, Phase II Drilling of Soil Borings, Installation of Groundwater Monitoring Wells, and Aquifer Testing at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-2.
- Applied GeoSystems. August 17, 1988. Report, Installation of Temporary Recovery Well, Periodic Monitoring, and Remediation of Groundwater at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-2A.
- Applied GeoSystems. August 22, 1988. Report, Removal of Underground Gasoline Storage Tanks and Excavation of Hydrocarbon-Contaminated Soils at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-3.
- Applied GeoSystems. September 23, 1988. Letter Report, Aeration of Excavated Soil at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-3A.
- Applied GeoSystems. September 30, 1989. Progress Report on Groundwater and Soil-Vapor Extraction and Treatment at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-4.
- Applied GeoSystems. December 1, 1989. Progress Report, Delineation and Remediation of Hydrocarbons in Soil and Groundwater at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-7.
- Applied GeoSystems. February 1, 1990. Progress Report on Monitoring and Remediation Activities at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-7.
- Applied GeoSystems. April 5, 1990. Soil Characterization Report, Delineation of Hydrocarbons in Soil and Groundwater at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-7.
- California Department of Health Services, October, 1990. Title 22, California Administrative Code, Section 64444.5.

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

**REFERENCES**  
(Continued)

- RESNA Industries Inc. June 18, 1992. Letter Report First Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California  
Job No. 18034.15.
- RESNA Industries Inc. July 20, 1992. Letter Report Second Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California  
Job No. 18034.15.
- RESNA Industries Inc. December 1, 1992. Letter Report Third Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California  
Job No. 18034.15.
- RESNA Industries Inc. December 3, 1992. Proposal to Change the Monitoring Schedule at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 62035.01.
- RESNA Industries Inc. February 1, 1993. Letter Report Fourth Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California  
Job No. 18034.15.
- RESNA Industries Inc. May 11, 1993. Letter Report First Quarter 1993 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California  
Job No. 130009.01.



Base: U.S. Geological Survey  
 7.5-Minute Quadrangle  
 Dublin, California.  
 Photorevised 1980

LEGEND

● = Site Location

Approximate Scale

2000 1000 0 2000 4000



feet

**RESNA**  
 Working to Restore Nature

**SITE VICINITY MAP**  
**Exxon Station 7-3399**  
**2991 Hopyard Road**  
**Pleasanton, California**

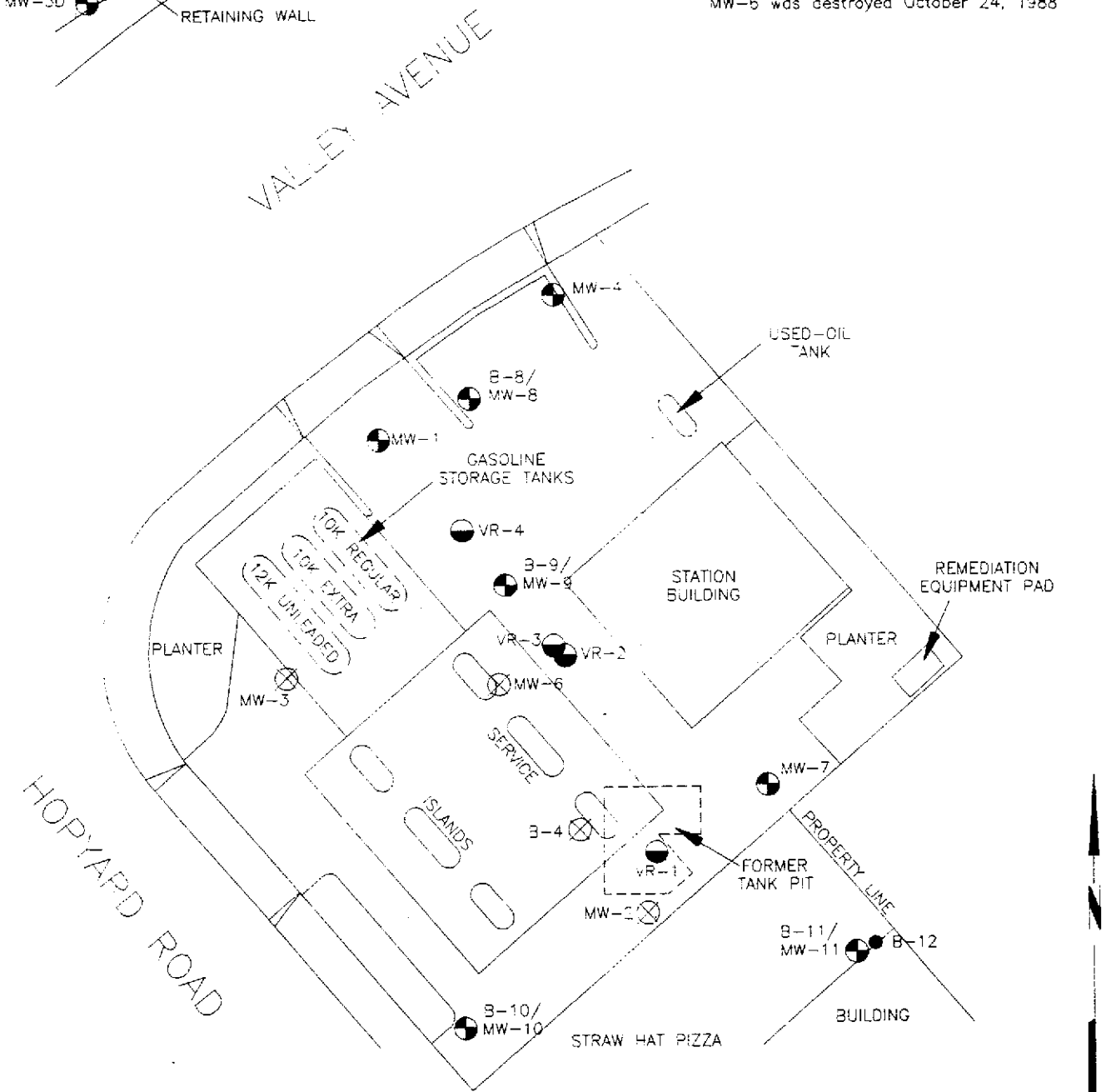
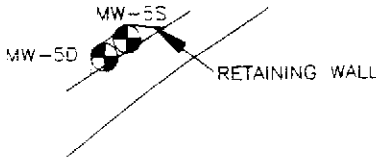
**PLATE**

**1**

**PROJECT 130009.01**

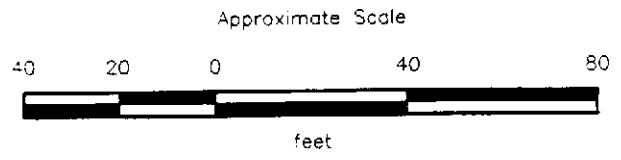


Note: B-4 was destroyed April 4, 1988  
 MW-2 was destroyed July 12, 1988  
 MW-3 was destroyed August 28, 1988  
 MW-6 was destroyed October 24, 1988



**EXPLANATION**

- B-11/  
MW-11 ● = Monitoring well  
(RESNA, April, May, and July 1988; October 1989)
- VR-4 ● = Vapor recovery well  
(RESNA, October 1989)
- B-12 ● = Soil boring  
(RESNA, October 1989)
- MW-6 ⊗ = Destroyed well



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989.  
 Revised January 22, 1990.

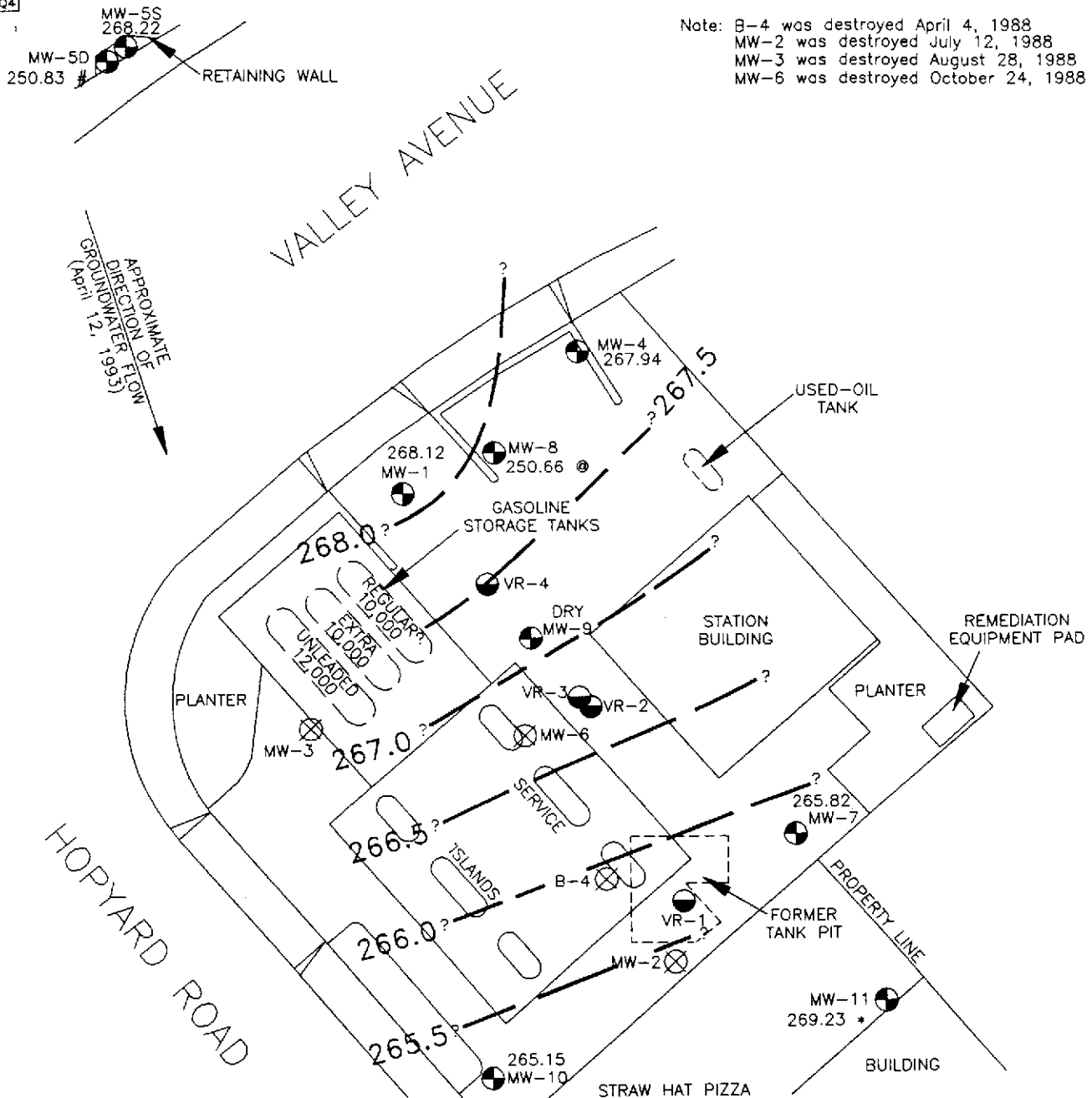


**GENERALIZED SITE PLAN**  
**Exxon Station 7-3399**  
**2991 Hopyard Road**  
**Pleasanton, California**

**PLATE**  
**2**

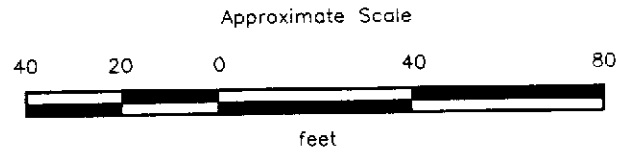
**PROJECT 130009.01**

Note: B-4 was destroyed April 4, 1988  
 MW-2 was destroyed July 12, 1988  
 MW-3 was destroyed August 28, 1988  
 MW-6 was destroyed October 24, 1988



**EXPLANATION**

- 268.0 — = Approximate line of equal elevation of groundwater in feet above mean sea level (MSL)
- 268.22 = Elevation of groundwater in feet above mean sea level, April 12, 1993
- MW-11 ● = Monitoring well (RESNA, April, May, and July 1988; October 1989)
- VR-4 ● = Vapor recovery well (RESNA, October 1989)
- MW-6 ⊗ = Destroyed well
- \* = Not used in gradient interpretation due to anomalously high elevation
- # = Screened in second water-bearing unit
- ⊙ = Screened in third water-bearing unit



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989.  
 Revised January 22, 1990.



**GROUNDWATER GRADIENT MAP**  
 April 12, 1993  
 Exxon Station 7-3399  
 2991 Hopyard Road  
 Pleasanton, California

**PLATE**  
**3**

**PROJECT 130009.01**

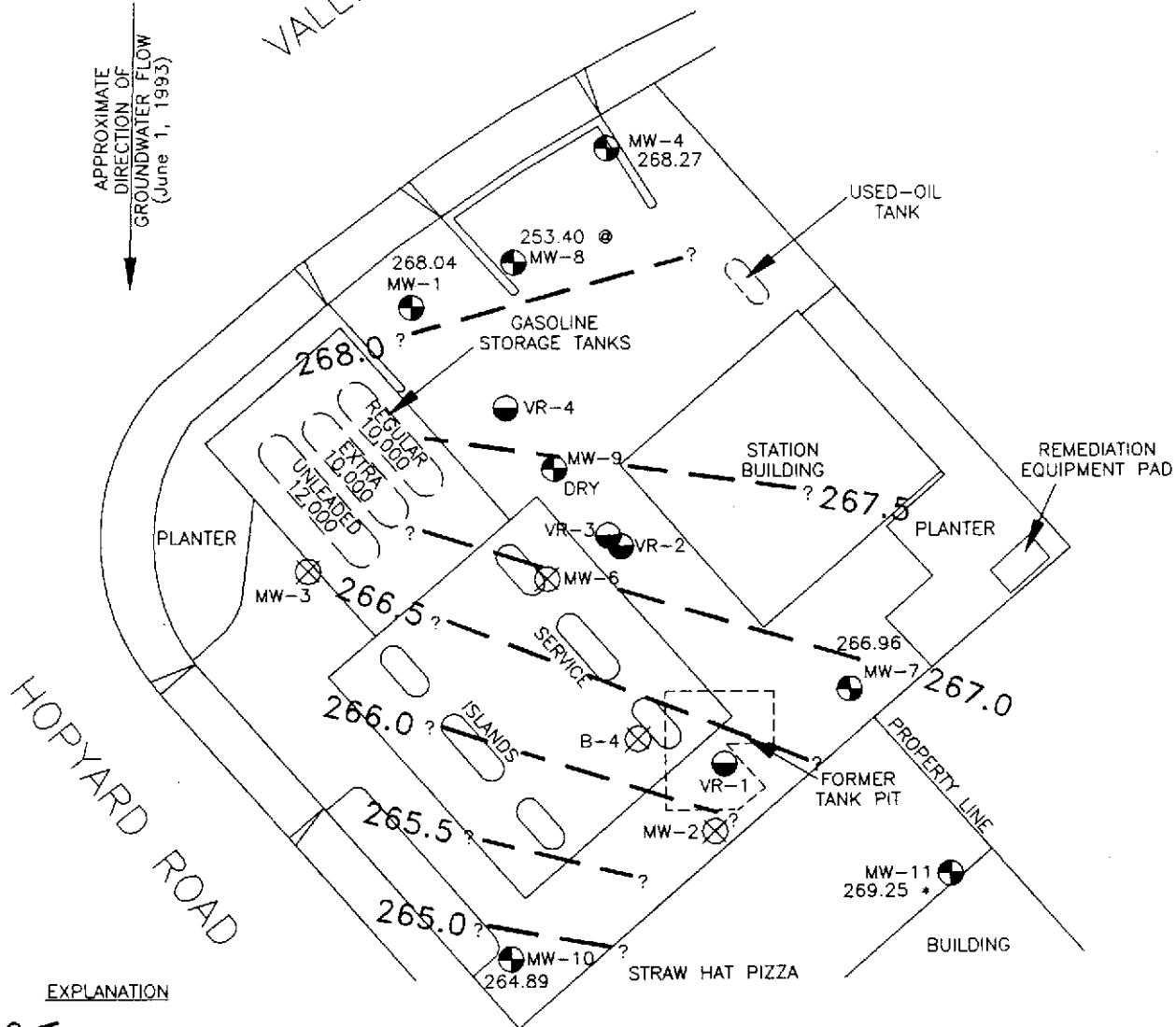
Note: B-4 was destroyed April 4, 1988  
MW-2 was destroyed July 12, 1988  
MW-3 was destroyed August 28, 1988  
MW-6 was destroyed October 24, 1988

MW-5S 268.08  
MW-5D 254.00 #

RETAINING WALL

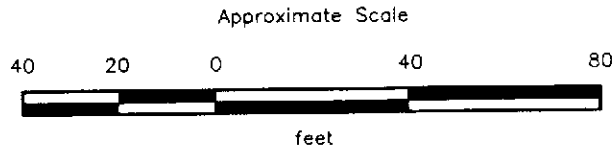
VALLEY AVENUE

APPROXIMATE DIRECTION OF GROUNDWATER FLOW (June 1, 1993)



EXPLANATION

- 268.0- = Approximate line of equal elevation of groundwater in feet above mean sea level (MSL)
- 268.27 = Elevation of groundwater in feet above MSL, June 1, 1993
- MW-11 (●) = Monitoring well (RESNA, April, May, and July 1988; October 1989)
- VR-4 (●) = Vapor recovery well (RESNA, October 1989)
- MW-6 (⊗) = Destroyed well
- \* = Not used in gradient interpretation due to anomalously high elevation
- # = Screened in second water-bearing unit
- ⊙ = Screened in third water-bearing unit



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989. Revised January 22, 1990.

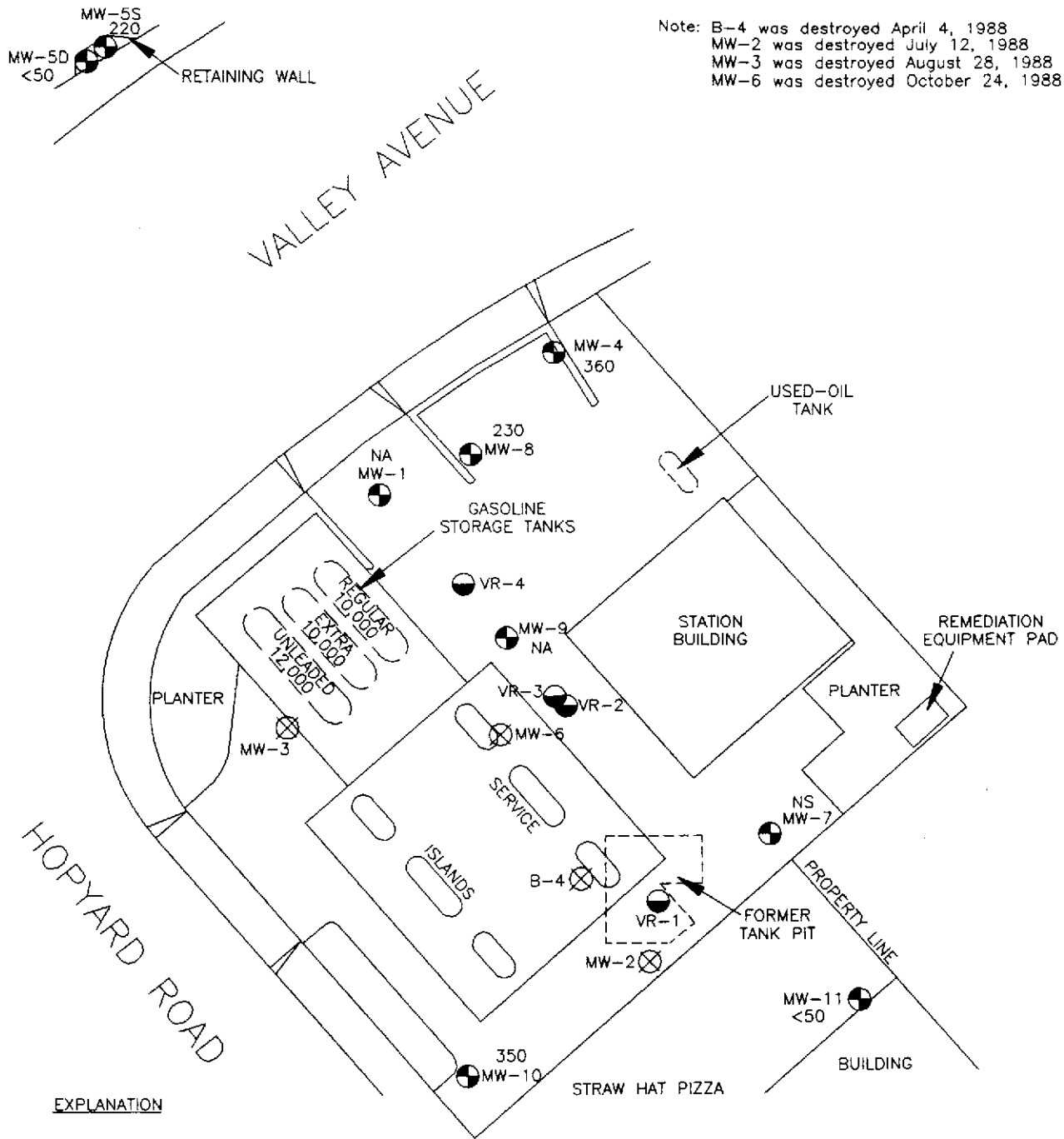


**GROUNDWATER GRADIENT MAP**  
June 1, 1993  
Exxon Station 7-3399  
2991 Hopyard Road  
Pleasanton, California

**PLATE**  
**4**

**PROJECT 130009.01**

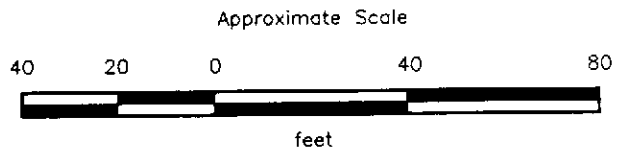
Note: B-4 was destroyed April 4, 1988  
 MW-2 was destroyed July 12, 1988  
 MW-3 was destroyed August 28, 1988  
 MW-6 was destroyed October 24, 1988



**EXPLANATION**

360 = Concentration of TPHg in groundwater in parts per billion, April 12, 1993

- MW-11 = Monitoring well (RESNA, April, May, and July 1988; October 1989)
- VR-4 = Vapor recovery well (RESNA, October 1989)
- MW-6 = Destroyed well
- NS = Not sampled
- NA = Not accessible



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989. Revised January 22, 1990.



**PROJECT 130009.01**

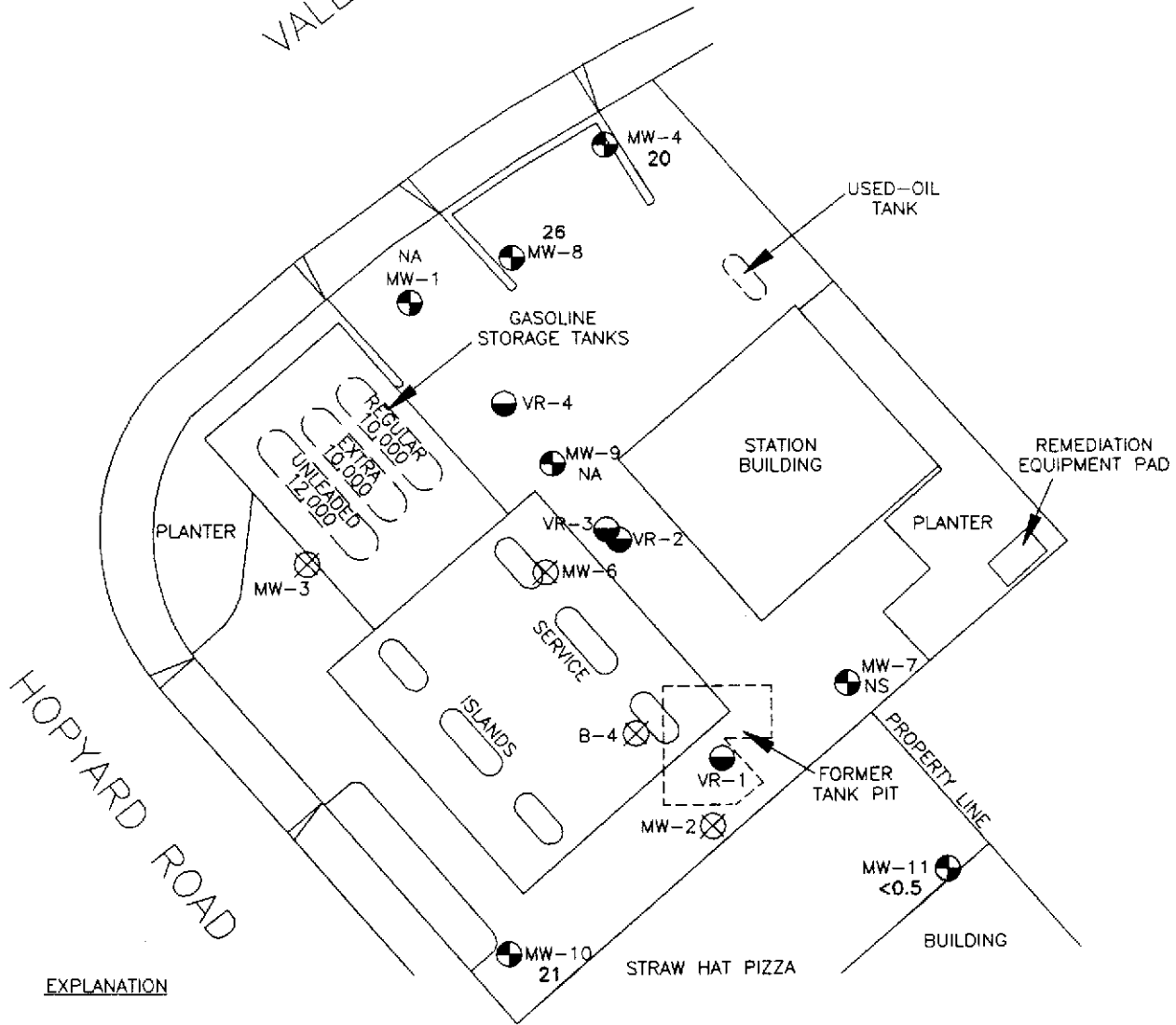
**TPHg CONCENTRATIONS  
 IN GROUNDWATER  
 Exxon Station 7-3399  
 2991 Hopyard Road  
 Pleasanton, California**

**PLATE  
 5**

Note: B-4 was destroyed April 4, 1988  
 MW-2 was destroyed July 12, 1988  
 MW-3 was destroyed August 28, 1988  
 MW-6 was destroyed October 24, 1988

MW-5S  
 11  
 MW-5D  
 1.0  
 RETAINING WALL

VALLEY AVENUE



EXPLANATION

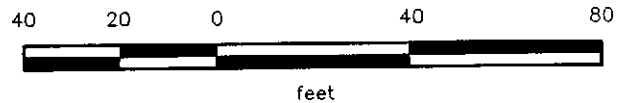
26 = Concentration of benzene in groundwater in parts per billion, April 12, 1993

MW-11 ● = Monitoring well (RESNA, April, May, and July 1988; October 1989)

VR-4 ● = Vapor recovery well (RESNA, October 1989)

MW-6 ⊗ = Destroyed well  
 NS = Not sampled  
 NA = Not accessible

Approximate Scale



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989. Revised January 22, 1990.



**BENZENE CONCENTRATIONS  
 IN GROUNDWATER  
 Exxon Station 7-3399  
 2991 Hopyard Road  
 Pleasanton, California**

**PLATE**

**6**

**PROJECT 130009.01**

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA

Exxon Station 7-3399  
Pleasanton, California

Page 1 of 16

See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-1	04/06/88	321.44	36.34	285.10	None
	04/08/88		36.29	285.15	None
	04/19/88		36.36	285.08	None
	06/06/88		38.16	283.28	None
	06/23/88		38.71	282.73	None
	06/28/88		39.16	282.28	None
	07/06/88		39.73	281.71	None
	07/13/88		40.22	281.22	None
	08/12/88		NA		
	08/26/88		41.90	279.54	None
	09/07/88		42.27	279.17	None
	12/07/88		43.94	277.50	None
	12/19/88		43.70	277.74	None
	02/09/89		42.53	278.91	None
	03/08/89		41.96	279.48	None
	04/03/89		41.59	279.85	None
	04/26/89		41.67	279.77	None
	06/30/89		43.79	277.65	None
	07/17/89		44.74	276.70	None
	07/18/89		44.76	276.68	None
	07/19/89		44.82	276.62	None
	07/20/89		44.85	276.59	None
	07/21/89		44.95	276.49	None
	07/26/89		45.42	276.02	None
	08/02/89		NA		
	08/03/89		46.18	275.26	None
	08/17/89		47.12	274.32	None
	09/13/89		49.08	272.36	None
	11/28/89		50.21	271.23	None
	01/09/90		49.31	272.13	None

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA

Exxon Station 7-3399  
Pleasanton, California

Page 2 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-1	01/26/90		49.29	272.15	None
cont.	02/23/90		#49.02	272.42	None
	02/23/90		49.02	272.42	None
	03/26/90		#48.71	272.73	None
	03/26/90		48.70	272.74	None
	04/18/90		48.79	272.65	None
	05/17/90		49.40	272.04	None
	06/11/90		50.83	270.61	None
	07/30/90		52.17	269.27	None
	08/27/90		53.44	268.00	None
	09/28/90		53.40	268.04	None
	12/27/90		NA		
	03/20/91		53.35	268.09	None
	06/20/91		53.55	267.89	None
	09/12/91		NA		
	12/30/91		NA		
	01/30/92		NA		
	03/02/92		NA		
	03/24/92		NA		
	04/14/92		NA		
	05/21/92		NA		
	06/08/92		NA		
	07/14/92		NA		
	08/10/92		NA		
	09/16/92		NA		
	10/07/92		NA		
	11/09/92		DRY		
	12/10/92		NA		
	01/26/93		NA		
	02/16/93		NA		

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 3 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-1 cont.	03/11/93		53.09	268.35	None
	04/12/93		53.32	268.12	None
	06/01/93		53.40	268.04	None
MW-2	04/02/88	NA	NA		3"
	04/04/88		NA		18.0"
	04/05/88		NA		18.0"
	04/06/88		39.31	NA	38.4"
	04/08/88		*	NA	*
	04/19/88		38.90	NA	29.76**
	06/06/88		38.78	NA	3.12"
	06/23/88		39.23	NA	1.50"
	06/28/88		39.72	NA	NA
	07/06/88		40.31	NA	Slight
				Well Destroyed	
MW-3	04/06/88		37.19	NA	None
	04/08/88		37.14	NA	None
	04/19/88		37.22	NA	None
	06/06/88		39.02	NA	None
	06/23/88		39.58	NA	None
	06/28/88		40.04	NA	None
	07/06/88		40.60	NA	None
	07/13/88		41.09	NA	None
	08/12/88		NA		
	08/26/88		42.77	NA	None
				Well Destroyed	
MW-4	04/08/88	321.56	36.41	285.15	None
	04/19/88		36.51	285.05	None
	06/06/88		38.26	283.30	None
	06/23/88		38.83	282.73	None
	06/28/88		39.28	282.28	None



TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 4 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-4	07/06/88		39.85	281.71	None
cont.	07/13/88		40.31	281.25	None
	08/12/88		NA		
	08/26/88		42.01	279.55	None
	09/07/88		NA		
	12/07/88		NA		
	12/19/88		43.83	277.73	None
	02/09/89		42.67	278.89	None
	03/08/89		42.11	279.45	None
	04/03/89		41.73	279.83	None
	04/26/89		41.79	279.77	None
	06/30/89		43.88	277.68	None
	07/17/89		44.85	276.71	None
	07/18/89		44.88	276.68	None
	07/19/89		44.92	276.64	None
	07/20/89		44.98	276.58	None
	07/21/89		45.04	276.52	None
	07/26/89		45.50	276.06	None
	08/02/89		NA		
	08/03/89		46.28	275.28	None
	08/17/89		47.22	274.34	None
	09/13/89		49.19	272.37	None
	11/28/89		50.34	271.22	None
	01/09/90		49.47	272.09	None
	01/26/90		49.36	272.20	None
	02/23/90		#49.18	272.38	None
	02/23/90		49.15	272.41	None
	03/26/90		#48.84	272.72	None
	03/26/90		48.83	272.73	None
	04/18/90		48.90	272.66	None
	05/17/90		50.03	271.53	None

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 5 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-4 cont.	06/11/90		50.98	270.58	None
	07/30/90		53.57	267.99	None
	08/27/90		53.61	267.95	None
	09/28/90		53.57	267.99	None
	12/27/90		53.68	267.88	None
	03/20/91		53.56	268.00	None
	06/20/91		53.75	267.81	None
	09/12/91		53.70	267.86	None
	12/30/91		DRY		
	01/30/92		DRY		
	03/02/92		53.83	267.73	None
	03/24/92		53.73	267.83	None
	04/14/92		53.76	267.80	None
	05/21/92		54.73	266.83	
	06/08/92		53.80	267.76	None
	07/14/92		53.60	267.96	None
	08/10/92		53.71	267.85	None
	09/16/92		53.89	267.67	None
	10/07/92		DRY		
	11/09/92		DRY		
	12/10/92		53.83	267.73	None
	01/26/93		DRY		
	02/16/93		53.64	267.92	None
03/11/93		53.54	268.02	None	
04/12/93		53.62	267.94	None	
06/01/93		53.52	268.27	None	
MW-5d	05/25/88	321.79	38.55	283.24	None
	06/06/88		38.90	282.89	None
	06/23/88		39.56	282.23	None
	06/28/88		40.23	281.56	None

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 7 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5d cont.	07/30/90		53.47	268.32	None
	08/27/90		58.24	263.55	None
	09/28/90		60.70	261.09	None
	12/27/90		62.52	259.27	None
	03/20/91		59.18	262.61	None
	06/20/91		65.02	256.77	None
	09/12/91		DRY		
	12/30/91		DRY		
	01/30/92		DRY		
	03/02/92		DRY		
	03/24/92		74.98	246.81	None
	04/14/92		74.42	247.37	None
	05/21/92		75.67	246.12	None
	06/08/92		DRY		
	07/14/92		DRY		
	08/10/92		DRY		
	09/16/92		DRY		
	10/07/92		DRY		
	11/09/92		DRY		
	12/10/92		DRY		
01/26/93		DRY			
02/16/93		76.47	245.32	None	
03/11/93		74.03	247.76	None	
04/12/93		70.96	250.83	None	
06/01/93		67.64	254.00	None	
MW-5s	05/25/88	321.64	38.46	283.18	None
	06/06/88		38.86	282.78	None
	06/23/88		39.52	282.12	None
	06/28/88		39.84	281.80	None
	07/06/88		40.45	281.19	None

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA

Exxon Station 7-3399  
Pleasanton, California  
Page 8 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5s	07/13/88		40.90	280.74	None
cont.	07/22/88		41.30	280.34	None
	08/05/88		▼23.84	297.80	None
	08/12/88		42.21	279.43	None
	08/26/88		42.55	279.09	None
	09/07/88		42.94	278.70	None
	12/07/88		44.67	276.97	None
	02/09/89		43.19	278.45	None
	03/08/89		Casing head cut to lower elevation		
			42.11	279.53	None
	04/26/89		41.84	279.80	None
	06/30/89		43.95	277.69	None
	07/17/89		44.91	276.73	None
	07/18/89		44.93	276.71	None
	07/19/89		44.98	276.66	None
	07/20/89		45.02	276.62	None
	07/21/89		45.10	276.54	None
	07/26/89		45.57	276.07	None
	08/02/89		NA		
	08/03/89		46.31	275.33	None
	08/17/89		47.25	274.39	None
	09/13/89		49.22	272.42	None
	11/28/89		50.39	271.25	None
	01/09/90		49.51	272.13	None
	01/26/90		49.40	272.24	None
	02/23/90		#49.20	272.44	None
	02/23/90		49.20	272.44	None
	03/26/90		#48.89	272.75	None
	03/26/90		48.88	272.76	None
	04/18/90		48.95	272.69	None
	05/17/90		50.06	271.58	None

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA

Exxon Station 7-3399

Pleasanton, California

Page 9 of 16

See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT	
MW-5s cont.	06/11/90		50.98	270.66	None	
	07/30/90		53.40	268.24	None	
	08/27/90		53.60	268.04	None	
	09/28/90		53.55	268.09	None	
	12/27/90		53.61	268.03	None	
	03/20/91		53.56	268.08	None	
	06/20/91		53.73	267.91	None	
	09/12/91		53.78	267.86	None	
	12/30/91		53.80	267.84	None	
	01/30/92		53.82	267.82	None	
	03/02/92		53.82	267.82	None	
	04/14/92		53.74	267.90	None	
	05/21/92		53.77	267.87	None	
	06/08/92		53.81	267.83	None	
	07/14/92		53.74	267.90	None	
	08/10/92		53.78	267.86	None	
	09/16/92		53.90	267.74	None	
	10/07/92			DRY		
	11/09/92			53.87	267.77	None
	12/10/92			53.78	267.86	None
01/26/93			53.38	268.26	None	
02/16/93			53.44	268.20	None	
03/11/93			53.28	268.36	None	
04/12/93			53.42	268.22	None	
06/01/93			53.56	268.08	None	
MW-6	05/11/88	NA	37.31	NA	None	
	06/06/88		38.70	NA	None	
	06/23/88		39.23	NA	None	
	06/28/88		39.74	NA	None	
	07/13/88		40.78	NA	None	

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 11 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-7 cont.	06/20/91		55.14	266.13	None
	09/12/91		55.84	265.43	None
	12/30/91		55.21	266.06	None
	01/30/92		54.88	266.39	None
	03/02/92		NA		
	03/24/92		NA		
	04/14/92		NA		
	05/21/92		53.36	267.91	None
	06/08/92		54.20	267.07	None
	07/14/92		53.31	267.96	None
	08/10/92		54.01	267.26	None
	09/16/92		55.97	265.30	None
	10/07/92		56.09	265.18	None
	11/09/92		54.16	267.11	None
	12/10/92		56.02	265.25	None
	01/26/93		56.15	265.12	None
	02/16/93		56.23	265.04	None
	03/11/93		55.82	265.45	None
04/12/93		55.45	265.82	None	
06/01/93			54.90	266.96	None
MW-8	10/01/89	321.86	53.88	267.98	None
	11/28/89		53.74	268.12	None
	01/09/90		57.90	263.96	None
	01/26/90		53.57	268.29	None
	02/23/90		52.16	269.70	None
	03/26/90		#52.80	269.06	None
	04/18/90		51.60	270.26	None
	05/17/90		58.21	263.65	None
	06/11/90		58.65	263.21	None
07/30/90			64.33	257.53	None

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 10 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-6 cont.	08/05/88		41.72	NA	None
	08/12/88		42.14	NA	None
	08/17/88		NA		
	08/26/88		42.51	NA	None
	09/07/88		42.85	NA	None
	10/24/88		Well Destroyed		
MW-7	07/13/88	321.27	40.50	280.77	None
	07/22/88		#41.85	279.42	##None
	08/05/88		#41.45	279.82	##None
	08/12/88		42.69	278.58	NM
	09/07/88		42.60	278.67	NM
	12/07/88		NA		
	01/17/89		43.20	278.07	NM
	02/09/89		NA		
	10/12/89		49.93	271.34	None
	11/28/89		#57.61	263.66	NM
	01/09/90		#57.57	263.70	NM
	01/26/90		#57.54	263.73	None
	01/26/90		49.08	272.19	None
	02/23/90		#55.26	266.01	None
	02/23/90		48.93	272.34	None
	03/26/90		#57.52	263.75	None
	03/26/90		48.60	272.67	None
	04/18/90		#57.55	263.72	None
	05/17/90		#57.40	263.87	None
	06/11/90		50.68	270.59	None
07/30/90		NA			
08/27/90		53.05	268.22	None	
09/28/90		NA			
12/27/90		NA			
03/20/91			54.11	267.16	None

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 12 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT	
MW-8 cont.	08/27/90		70.41	251.45	None	
	09/28/90		71.93	249.93	None	
	12/27/90		66.60	255.26	None	
	03/20/91		60.75	261.11	None	
	06/20/91		88.77	233.09	None	
	09/12/91		103.17	218.69	None	
	12/30/91		81.15	240.71	None	
	01/30/92		81.69	240.17	None	
	03/02/92		78.45	243.41	None	
	03/24/92		76.55	245.31	None	
	04/14/92		75.56	246.30	None	
	05/21/92		86.99	234.87	None	
	06/08/92		91.69	230.17	None	
	07/14/92		94.65	227.21	None	
	08/10/92		95.02	226.84	None	
	09/16/92		91.90	229.96	None	
	10/07/92			DRY		
	11/09/92			84.35	237.51	None
	12/10/92			82.20	239.66	None
	01/26/93			78.63	243.23	None
02/16/93			76.90	244.96	None	
03/11/93			74.39	247.47	None	
04/12/93			71.20	250.66	None	
06/01/93			68.04	253.40	None	
MW-9	10/12/89	321.44	50.24	271.20	None	
	11/28/89		50.59	270.85	Heavy	
	12/01/89		50.32	271.12	Heavy	
	12/07/89		50.13	271.31	Heavy	
	12/13/89		49.91	271.53	Slight	
	12/20/89		49.78	271.66	Slight	



Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 13 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-9	01/02/89		NA		
cont.	01/09/90		49.39	272.05	Slight
	01/26/90		49.30	272.14	None
	02/23/90		#49.06	272.38	None
	02/23/90		49.05	272.39	None
	03/26/90		#48.75	272.69	None
	03/26/90		48.73	272.71	Very Slight
	04/18/90		48.81	272.63	Slight
	05/17/90		49.96	271.48	Slight
	06/11/90		51.58	269.86	NA
	07/30/90		DRY		
	08/27/90		DRY		
	09/28/90		DRY		
	12/27/90		NA		
	03/20/91		DRY		
	06/20/91		49.63	271.81	None
	09/12/91		NA		
	12/30/91		NA		
	01/30/92		NA		
	03/02/92		NA		
	03/24/92		NA		
	04/14/92		NA		
	05/21/92		NA		
	06/08/92		NA		
	07/14/92		NA		
	08/10/92		NA		
	09/16/92		NA		
	10/07/92		DRY		
	11/09/92		DRY		
	12/10/92		NA		
	01/26/93		DRY		

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 14 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-9 cont.	02/16/93		DRY		
	03/11/93		DRY		
	04/12/93		DRY		
	06/01/93		DRY		
MW-10	10/12/89	322.99	51.93	271.06	None
	11/28/89		51.88	271.11	None
	12/20/89		51.47	271.52	None
	01/09/90		50.98	272.01	None
	01/26/90		50.87	272.12	None
	02/23/90		#50.67	272.32	None
	02/23/90		50.65	272.34	None
	03/26/90		#50.36	272.63	None
	03/26/90		50.35	272.64	None
	04/18/90		50.45	272.54	None
	06/11/90		51.16	271.83	None
	07/30/90		55.72	267.27	None
	08/27/90		57.75	265.24	None
	09/28/90		NA		
	12/27/90		58.08	264.91	None
	03/20/91		57.80	265.19	None
	06/20/91		58.00	264.99	None
	09/12/91		DRY		
	12/30/91		NA		
	01/30/92		DRY		
03/02/92		DRY			
03/24/92		58.53	264.46	None	
04/14/92		DRY			
05/21/92		DRY			
06/08/92		DRY			
07/14/92		DRY			

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 15 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-10 cont.	08/10/92		DRY		
	09/16/92		DRY		
	10/07/92		DRY		
	11/09/92		DRY		
	12/10/92		DRY		
	01/26/93		DRY		
	02/16/93		58.23	264.76	None
	03/11/93		57.81	265.18	None
	04/12/93		57.84	265.15	None
	06/01/93		57.88	264.89	None
MW-11	11/10/89	321.77	50.64	272.13	None
	11/28/89		50.51	272.26	None
	12/20/89		51.47	271.30	None
	01/09/90		49.68	273.09	None
	01/26/90		49.55	273.22	None
	02/23/90		#49.37	273.40	None
	02/23/90		49.35	273.42	None
	03/26/90		#49.03	273.74	None
	04/18/90		49.12	273.65	None
	05/17/90		50.30	272.47	None
	06/11/90		51.16	271.61	None
	07/30/90		53.50	269.27	None
	08/27/90		53.65	269.12	None
	09/28/90		53.62	269.15	None
	12/27/90		53.63	269.14	None
	03/20/91		53.26	269.51	None
	06/20/91		53.60	269.17	None
	09/12/91		53.60	269.17	None
12/30/91		53.95	268.82	None	
01/30/92		53.65	269.12	None	

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 16 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-11	03/02/92		53.68	269.09	None
cont.	03/24/92		53.70	269.07	None
	04/14/92		53.66	269.11	None
	05/21/92		53.62	269.15	None
	06/08/92		53.61	269.16	None
	07/14/92		53.53	269.24	None
	08/10/92		53.58	269.19	None
	09/16/92		53.60	269.17	None
	10/07/92		DRY		
	11/09/92		DRY		
	12/10/92		53.59	269.18	None
	01/26/93		53.67	269.10	None
	02/16/93		53.60	269.17	None
	03/11/93		53.58	269.19	None
	04/12/93		53.54	269.23	None
	06/01/93		53.52	269.25	None
VR-1	03/24/92		24.77		None

Well elevation relative to Mean Sea Level (MSL).

Measurements in feet

- NA : Not accessible
- \* : Not measured because of installed product-skimmer pump.
- \*\* : Thickness of floating product after the well was allowed to recharge for approximately 3 hours.
- ▼ : Anomalous water level possibly due to recharge from a perched water zone.
- # : Water level during pumping of MW-7.
- ## : Water inspected in oil-water separator tank.

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 1 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-1	04/02/88	<20	<0.5	1.7	<0.5	<0.5	NA
	07/06/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/13/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	09/07/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	03/03/89	<20	1.6	<0.5	<0.5	<0.5	NA
	06/30/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/17/89	23	<0.5	<0.5	<0.5	<0.5	NA
	07/20/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/26/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/02/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	09/13/89	220	39	0.60	<0.50	5.1	NA
	12/20/89	220	56	0.72	<0.50	0.71	NA
	01/25/90	57	18	1.6	<0.50	1.8	NA
	02/27/90	55	3.2	2.3	<0.50	3.2	NA
	03/26/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	04/18/90	25	1.1	1.6	<0.50	3.1	NA
05/17/90	<20	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 2 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOGs
MW-1 cont.	06/11/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/30/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/27/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	09/28/90	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/10/92			Not Accessible			
	02/16/93			Not Accessible			
	04/12/93			Not Accessible			
MW-2	07/06/88	62,000	25,700	18,500	2,900	21,400	NA
	07/12/88			Well Destroyed			
MW-3	04/06/88	20	<0.5	<0.5	<0.5	<0.5	NA
	07/06/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/13/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/26/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/29/88			Well Destroyed			
MW-4	04/11/88	80	1.8	16.3	0.6	7.1	NA
	07/06/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/13/88	<20	<0.5	0.9	<0.5	<0.5	NA

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 3 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs	
MW-4 cont.	03/08/89	440	3.8	1.0	<0.5	<0.5	NA	
	06/30/89	100	<0.5	<0.5	<0.5	<0.5	NA	
	07/17/89	390	<0.5	<0.5	<0.5	<0.5	NA	
	07/20/89	200	<0.5	<0.5	<0.5	<0.5	ND*	
	07/26/89	66	<0.5	<0.5	<0.5	<0.5	NA	
	08/02/89	NA	NA	NA	NA	NA	ND**	
	09/13/89	<20	<0.5	<0.5	<0.5	<0.5	NA	
	12/20/89	<20	<0.5	<0.5	<0.5	<0.5	NA	
	03/26/90	<20	<0.5	<0.5	<0.5	<0.5	NA	
	08/01/90	<20	<0.5	<0.5	<0.5	<0.5	NA	
	12/27/90	<50	<0.5	<0.5	<0.5	<0.5	NA	
	03/20/91	<50	<0.5	<0.5	<0.5	<0.5	NA	
	03/24/92	<50	<0.5	<0.5	<0.5	<0.5	NA	
	12/10/92			Not Accessible				
	02/16/93	600	57	34	11	200	NA	
04/12/93	360	20	10	22	80	NA		

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 4 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-5d	05/25/88	<20	<0.5	3.1	<0.5	<0.5	NA
	07/06/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/13/88	40	<0.5	<0.5	<0.5	<0.5	NA
	03/08/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	06/30/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/17/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/20/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/26/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/02/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	09/13/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	12/20/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	03/26/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/01/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	12/27/90	<50	<0.5	<0.5	<0.5	<0.5	NA
	03/20/91	<50	<0.5	<0.5	<0.5	<0.5	NA
06/20/91	<50	<0.5	<0.5	<0.5	<0.5	NA	
12/10/92				Not Sampled			



TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 5 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-5d	02/16/93	Not Sampled					
cont.	04/12/93	<50	1.0	1.0	2.5	7.4	NA
MW-5s	05/25/88	<20	<0.5	0.9	<0.5	<0.5	NA
	07/06/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/13/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/22/88	50	0.9	4.1	1.3	8.7	NA
	08/05/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	09/07/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	03/08/89	<20	<0.5	<0.5	<0.5	<1.0	NA
	06/30/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/17/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/20/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	07/26/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/02/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	09/13/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	12/20/89	<50	<0.5	<0.5	<0.5	<0.5	NA
	03/26/90	<20	<0.5	<0.5	<0.5	<0.5	NA

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES

Exxon Station 7-3399  
 Pleasanton, California  
 Page 6 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	VOCs
MW-5s cont.	08/01/90	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/27/90	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/10/92			Not Sampled			
	02/16/93			Not Sampled			
	04/12/93	220	11	5.9	13	48	NA
MW-6	05/17/88	<20	<0.5	<0.5	<0.5	<0.5	NA
	06/28/88	440	31.8	7.5	5.4	6.7	NA
	07/13/88	290	162.3	7.7	22.5	14.1	NA
	08/05/88	1180	245	5.2	47.1	23.7	NA
	09/07/88	2920	474	16	262	136	NA
	10/24/88			Well Destroyed			
MW-7	07/13/88	16700	860	1910	710	4420	NA
	07/22/88	460	136	85	5	58	NA
	08/05/88	270	73.3	52.8	2.3	28.1	NA
	02/09/89	6700	600	688	10	448	NA
	06/30/89	1100	180	50	13	40	NA
	08/02/89	31	1.6	<0.5	<0.5	0.60	NA

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 8 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-8 cont.	03/26/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	(Blank)	<20	<0.5	<0.50	<0.5	<0.5	NA
	04/18/90	<20	<0.50	0.58	<0.50	1.1	NA
	05/17/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	06/11/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/01/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/27/90	<20	<0.5	<0.5	<0.5	0.5	NA
	09/28/90	<50	<0.5	<0.5	<0.5	0.5	NA
	12/27/90	<50	<0.5	<0.5	<0.5	0.6	NA
	03/20/91	<50	<0.5	<0.5	<0.5	<0.5	NA
	06/20/91	<50	<0.5	<0.5	<0.5	0.6	NA
	10/14/91	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/30/91	<50	<0.5	<0.5	<0.5	<0.5	NA
	03/24/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	06/08/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	09/16/92	<50	<0.5	0.9	<0.5	<0.5	NA
	12/10/92	<50	<0.5	0.6	<0.5	<0.5	NA

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES

Exxon Station 7-3399  
 Pleasanton, California  
 Page 9 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	VOCs
MW-8 cont.	02/16/93	<50	0.7	0.6	<0.5	2.3	NA
	04/12/93	230	26	7.3	11	38	NA
MW-9	10/03/89	89000	1000	9200	3000	13000	NA
	12/20/89	190000	6300	31000	9500	55000	NA
	01/25/90	77000	2400	9400	2700	15000	NA
	02/27/90	97000	1200	7100	2300	14000	NA
	03/26/90	89000	1800	7700	2000	11000	NA
	04/18/90	110000	2000	7500	2500	16000	NA
	05/17/90	81000	1500	5700	2300	14000	NA
	06/20/90	430	<0.5	<0.5	<0.5	<0.5	NA
	12/10/92			Not Accessible			
	02/16/93			Not Sampled			
04/12/93			Not Sampled				
MW-10	10/12/89	20	<0.5	<0.5	<0.5	1.5	NA
	12/20/89	<20	<0.5	<0.5	<0.5	1.8	NA
	03/26/90	<20	<0.5	<0.5	<0.5	<0.5	NA
	08/01/90	<20	<0.5	<0.5	<0.5	<0.5	NA

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 7 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-7 cont.	09/13/89	87	<0.5	2.6	<0.5	12	NA
	12/20/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	06/20/91	74	<0.5	1.8	0.6	4.1	NA
	09/12/91	<50	3.5	<0.5	1.7	6.8	NA
	12/30/91	<50	<0.5	<0.5	<0.5	<0.5	NA
	06/08/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/10/92			Not Sampled			
	02/16/93	600	28	30	17	200	NA
	04/12/93			Not Sampled			
Well #7 (City of Pleasanton)	07/20/89	NA	NA	NA	NA	NA	ND*
	08/02/89	NA	NA	NA	NA	NA	ND**
	03/26/90	<50	<0.50	<0.50	<0.50	<0.50	NA
MW-8	10/03/89	<20	<0.5	<0.5	<0.5	<0.5	NA
	12/20/89	<20	<0.50	<0.50	<0.50	0.61	NA
	01/31/90	<20	<0.50	<0.50	<0.50	0.87	NA
	02/09/90	<20	<0.5	<0.5	<0.5	1.1	NA
	(Blank)	<20	<0.5	<0.5	<0.5	<0.5	NA

Quarterly Groundwater Monitoring and Remediation Activities  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 1  
CUMULATIVE GROUNDWATER MONITORING DATA  
Exxon Station 7-3399  
Pleasanton, California  
Page 6 of 16  
See notes on page 16

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5d	07/06/88		40.69	281.10	None
cont.	07/13/88		41.22	280.57	None
	08/12/88		42.34	279.45	None
	08/26/88		42.60	279.19	None
	09/07/88		42.99	278.80	None
	12/07/88		44.58	277.21	None
	02/09/89		Casing head damaged by construction		
	03/08/89		Casing head cut to lower elevation		
			42.49	279.30	None
	04/03/89		42.21	279.58	None
	04/26/89		42.36	279.43	None
	06/30/89		44.79	277.00	None
	07/17/89		45.73	276.06	None
	07/18/89		45.75	276.04	None
	07/19/89		44.89	276.90	None
	07/20/89		46.02	275.77	None
	07/21/89		46.18	275.61	None
	07/26/89		46.83	274.96	None
	08/02/89		NA		
	08/03/89		47.67	274.12	None
	08/17/89		48.27	273.52	None
	09/13/89		50.60	271.19	None
	11/28/89		51.16	270.63	None
	01/09/90		50.42	271.37	None
	01/26/90		50.10	271.69	None
	02/23/90		50.08	271.71	None
	03/26/90		*49.80	271.99	None
	03/26/90		49.77	272.02	None
	04/18/90		49.80	271.99	None
	05/17/90		51.32	270.47	None
	06/11/90		52.10	269.69	None

TABLE 2  
 CUMULATIVE RESULTS OF LABORATORY ANALYSES  
 OF GROUNDWATER SAMPLES  
 Exxon Station 7-3399  
 Pleasanton, California  
 Page 10 of 11  
 See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-10 cont.	12/10/92	Not Sampled					
	02/16/93	Not Sampled					
	04/12/93	350	21	11	21	75	NA
MW-11	11/16/89	150	4.1	9.4	0.74	20	NA
	12/20/89	150	7.2	7.5	2.9	13	NA
	03/26/90	32	<0.5	<0.5	<0.5	2.7	NA
	07/30/90	26	<0.5	<0.5	<0.5	3.8	NA
	12/10/92	Not Sampled					
	02/16/93	Not Sampled					
	04/12/93	<50	<0.5	<0.5	<0.5	<0.5	NA
VR-1	03/24/92	<50	1.7	<0.5	<0.5	<0.5	NA
	12/10/92	Not Sampled					
	04/12/93	Not Sampled					
	MCLs	---	1.0	---	680	1,750	---
	DWAL	---	---	100	---	---	---

TABLE 3  
CUMULATIVE RESULTS OF LABORATORY ANALYSES  
OF GROUNDWATER SAMPLES  
Exxon Station 7-3399  
Pleasanton, California  
Page 11 of 11

Results in parts per billion (ppb).		
<	:	Less than the laboratory detection limit.
NA	:	Not Analyzed
ND	:	Not detected at or above method detection limit
---	:	Not Applicable
TPHg	:	Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015.
BTEX	:	Analyzed using modified EPA method 5030/8020.
VOCs	:	Volatile organic compounds
*	:	VOCs analyzed using EPA method 502.2.
**	:	VOCs analyzed using EPA method 524.2.
MCLs	:	Maximum Contaminant Levels, DHS (October 1990).
DWAL	:	Drinking Water Action Level, DHS (October 1990).



TABLE 3  
CUMULATIVE RESULTS OF FIELD ORGANIC VAPOR MEASUREMENTS  
Exxon Station 7-3399  
Pleasanton, California  
Page 1 of 2  
See notes on page 2

DATE	INFLUENT	BETWEEN CANISTERS 1 AND 2	BETWEEN CANISTERS 2 AND 3	EFFLUENT
10/22/92	280	NM	0	0
10/23/92	90	NM	0	0
10/26/92	145	NM	10	0
10/27/92	190	NM	10	0
10/28/92	270	NM	30	10
11/02/92	120	NM	40	0
11/03/92*	210	10	20	0
11/04/92	129.5	6.8	0	0
11/05/92	20	0	0	0
11/09/92	76.4	4.1	0	0
11/10/92	100	20	10	0
11/13/92	49.5	3.1	0	0
11/16/92	45.9	5.2	2.4	0
11/17/92	110	30	0	0
11/18/92	100	30	5	0
11/19/92	83.4	4.5	2.4	0
11/20/92	90	20	20	15
11/23/92	93	10.1	1.4	0
11/24/92	115.4	5.6	1.4	0
11/25/92	105.3	16.2	4.9	0
11/30/92	161.2	4.2	2.7	0
12/01/92*	14.7	6.9	3.3	0
12/02/92	20	20	10	0
12/03/92	70	20	10	0
12/11/92	7.8	9.0	4.8	0
12/16/92	2.5	3.2	1.6	0

TABLE 3  
CUMULATIVE RESULTS OF FIELD ORGANIC VAPOR MEASUREMENTS  
Exxon Station 7-3399  
Pleasanton, California  
Page 2 of 2  
See notes on page 2

DATE	INFLUENT	BETWEEN CANISTERS 1 AND 2	BETWEEN CANISTERS 2 AND 3	EFFLUENT
12/21/92	74.8	5.7	2.8	0
12/31/92	2.4	6.6	10.8	0
01/05/93	0.2	0.2	1.6	0
01/11/93	30.8	7.4	24.4	0
01/21/93*	0.8	4.4	0	0
01/26/93	0	0	0	0
02/01/93	0	0	0	0
02/08/93	8.7	1.3	0.7	0
02/16/93	2.9	0	0	0
02/26/93	1.6	0.3	0.5	0
03/01/93	2.4	2.7	4.3	0
03/17/93	9.4	0.3	1.0	2.4
05/17/93*	5.0	0.0	0.0	0.0
06/01/93	0.7	0.0	0.0	0.0
06/16/93	2.0	0.0	0.0	0.0

Field measurements in parts per million using a Photoionization Dectector (PID) (shaded area) and Flame Ionization Dectector (FID) (unshaded area)

FID readings are non-methane measurements

NM : No measurements--only two carbon canisters in-series  
\* : influent carbon changeout

Quarterly Groundwater Monitoring and Remediation Activity  
Exxon Station 7-3399, Pleasanton, California

July 28, 1993  
130009.01

TABLE 4  
CUMULATIVE RESULTS OF INFLUENT AND EFFLUENT VAPOR SAMPLES  
Exxon Station 7-3399  
Pleasanton, California

DATE	SAMPLE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
11/30/90	influent	1800*	19*	21*	15*	52*
12/14/90	influent	1.4	<0.0001	0.0005	0.0003	0.0008
12/17/90	influent	0.20	0.0024	0.016	0.0010	0.0026
	effluent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
12/28/90	influent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
	effluent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
01/04/91	influent	0.94	0.013	0.0005	0.0006	0.0015
01/14/91	influent	1.2	0.0023	0.0013	0.0009	0.0039
01/28/91	influent	0.96	0.028	0.0008	0.0005	0.0005
02/28/91			System Inoperative			
03/18/91	influent	0.91	0.0037	0.0015	0.0018	0.0091
04/22/91			System Inoperative			
05/03/91	influent	0.62	<0.0005	<0.0005	<0.0005	0.0009
06/20/91	influent	0.49	0.026	0.041	0.0089	0.050
10/12/92	influent	97*	<0.5*	0.7*	<0.5*	0.7*
	between canisters	<50*	<0.5*	<0.5*	<0.5*	1.0*
	effluent	<50*	<0.5*	<0.5*	<0.5*	0.7*

Results are in parts per million (ppm)

< : Less than the method detection limit.

TPH : total petroleum hydrocarbons as gasoline analyzed by modified EPA method 5030/8015.

\* : Results in milligrams per cubic meter (mg/m<sup>3</sup>).

**APPENDIX A**

**GROUNDWATER SAMPLING PROTOCOL  
AND WELL PURGE DATA SHEETS**

### GROUNDWATER SAMPLING PROTOCOL

The static water level and free-phase hydrocarbon level, if present, in each well that contained water and/or free-phase hydrocarbons are measured with an ORS Interphase Probe Model No. 106801, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from wellhead elevations and corrected for product thickness, when necessary, by multiplying product thickness (PT) by a correction factor 0.8 and subtracting from the DTW level (Adjusted DTW = DTW - [PT x 0.8]).

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. Any free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity is obtained. Approximately four well casing volumes are purged before those characteristics stabilize. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". Turbidity measurements are also collected from the purged well water. The quantity of water purged from each well is calculated as follows:

1 well casing volume =  $\pi r^2 h (7.48)$  where:

r	=	radius of the well casing in feet.
h	=	column of water in the well in feet (depth to bottom - depth to water).
7.48	=	conversion constant from cubic feet to gallons

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples were collected with an Environmental Protection Agency (EPA) approved Teflon® sampler which has been cleaned with Alconox® and deionized water. The groundwater was carefully poured into 40-milliliter (ml) glass vials, which are filled so as to produce a positive

meniscus. Each vial is preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody form, to a California-certified laboratory.

**WELL PURGE DATA SHEET**

Project Name: Exxon 7-3399

Job No. 130009.01

Date: April 12, 1993

Page 1 of 1

Well No. MW-4

Time Started 4:25

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
4:25	Start purging MW-4				
4:25	0	74.9	7.15	1.47	>200
4:28	2	74.0	7.35	1.45	>200
4:32	4	73.9	7.34	1.44	>200
	4	Dry			
5:02	5	79.8	7.27	1.56	>200
	5	Dry			
	Stop purging MW-4				
<b>Notes:</b> Well Diameter (inches) : 4 Depth to Bottom (feet) : 59.92 Depth to Water - initial (feet) : 53.62 Depth to Water - final (feet) : 53.62 % recovery : 100 Time Sampled : 7:45 Gallons per Well Casing Volume : 4.11 Gallons Purged : 5 Well Casing Volume Purged : 1.2 Approximate Pumping Rate (gpm) : 0.1					

Purge Sequence 4/93

MW-8

MW-5a

-5s

-4

10?

11?

**WELL PURGE DATA SHEET**

Project Name: Exxon 7-3399

Job No. 130009.01

Date: April 12, 1993

Page 1 of 1

Well No. MW-5s

Time Started 3:20

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
3:20	Start purging MW-5s				
3:20	0	76.4	6.87	2.13	>200
3:25	1	75.7	6.87	2.15	>200
3:28	2	76.1	6.91	2.13	>200
	2	Dry			
	Stop purging MW-5s				

**Notes:**

Well Diameter (inches) : 4  
 Depth to Bottom (feet) : 57.86  
 Depth to Water - initial (feet) : 53.42  
 Depth to Water - final (feet) : 53.42  
     % recovery : 100  
     Time Sampled : 7:30  
 Gallons per Well Casing Volume : 2.90  
     Gallons Purged : 2  
     Well Casing Volume Purged : 0.7  
 Approximate Pumping Rate (gpm) : 0.2



**WELL PURGE DATA SHEET**

Project Name: Exxon 7-3399

Job No. 130009.01

Date: April 12, 1993

Page 1 of 1

Well No. MW-5d

Time Started 2:46

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
2:46	Start purging MW-5d				
2:46	0	72.6	7.22	1.31	148.6
2:51	7	70.4	7.18	1.29	42.6
3:00	14	70.5	7.09	1.35	5.8
3:09	21	69.2	7.06	1.31	2.6
3:17	28	70.9	7.06	1.38	2.8
3:17	Stop purging MW-5d				
Notes:					
Well Diameter (inches) : 4					
Depth to Bottom (feet) : 82.32					
Depth to Water - initial (feet) : 70.96					
Depth to Water - final (feet) : 70.98					
% recovery : 99					
Time Sampled : 6:45					
Gallons per Well Casing Volume : 7.41					
Gallons Purged : 30					
Well Casing Volume Purged : 4.04					
Approximate Pumping Rate (gpm) : 0.9					

**WELL PURGE DATA SHEET**

Project Name: Exxon 7-3399

Job No. 130009.01

Date: April 12, 1993

Page 1 of 1

Well No. MW-8

Time Started 12:50

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:50	Start purging MW-8				
12:50	0	77.4	7.50	7.45	17.5
1:02	20	72.1	7.46	8.48	8.4
1:16	40	74.0	7.24	8.47	4.3
1:29	60	75.0	7.22	8.74	1.9
1:43	80	76.8	7.27	9.06	1.2
1:45					
1:45	Stop purging MW-8				

Notes:

Well Diameter (inches) : 4  
 Depth to Bottom (feet) : 139.00  
 Depth to Water - initial (feet) : 71.20  
 Depth to Water - final (feet) : 71.20  
 % recovery : 100  
 Time Sampled : 6:30  
 Gallons per Well Casing Volume : 44.27  
 Gallons Purged : 84  
 Well Casing Volume Purged : 1.90  
 Approximate Pumping Rate (gpm) : 1.5

**APPENDIX B**

**LABORATORY ANALYSIS REPORTS  
AND CHAIN OF CUSTODY RECORD**

**REPORT OF LABORATORY ANALYSIS**

April 26, 1993

Mr. Dave Higgins  
RESNA  
3315 Almaden Expressway Suite 34  
San Jose, CA 95118

RE: PACE Project No. 430415.504  
Client Reference: Exxon 7-3399 (EE)

Dear Mr. Higgins:

Enclosed is the report of laboratory analyses for samples received April 15, 1993.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

*Carol Reid*  
Stephanie Matzo *for*  
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

RESNA  
 3315 Almaden Expressway Suite 34  
 San Jose, CA 95118

April 26, 1993  
 PACE Project Number: 430415504

Attn: Mr. Dave Higgins

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:

70 0050456  
 04/12/93  
 04/15/93  
 MW-8-71.2-

*missed*

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>R</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	04/21/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	04/21/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	04/21/93
Benzene	ug/L	0.5	ND	04/21/93
Toluene	ug/L	0.5	1.4	04/21/93
Ethylbenzene	ug/L	0.5	ND	04/21/93
Xylenes, Total	ug/L	0.5	ND	04/21/93

**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 2

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0050480  
 04/12/93  
 04/15/93  
 MW4-53.62-

*rinse?*

Units                      MDL                      R                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	04/21/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	04/21/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	04/21/93
Benzene	ug/L	0.5	ND	04/21/93
Toluene	ug/L	0.5	1.7	04/21/93
Ethylbenzene	ug/L	0.5	ND	04/21/93
Xylenes, Total	ug/L	0.5	0.8	04/21/93

**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 3

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number: 70 0050499  
 Date Collected: 04/12/93  
 Date Received: 04/15/93  
 Client Sample ID: MW10-57.84

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	04/23/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	350
PURGEABLE AROMATICS (BTXE BY EPA 8020M):		-	04/23/93
Benzene	ug/L	0.5	21
Toluene	ug/L	0.5	11
Ethylbenzene	ug/L	0.5	21
Xylenes, Total	ug/L	0.5	75

**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 4

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number: 70 0050502  
 Date Collected: 04/12/93  
 Date Received: 04/15/93  
 Client Sample ID: MW11-53.54

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	04/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	04/22/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	04/22/93
Benzene	ug/L	0.5	ND	04/22/93
Toluene	ug/L	0.5	ND	04/22/93
Ethylbenzene	ug/L	0.5	ND	04/22/93
Xylenes, Total	ug/L	0.5	ND	04/22/93



**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 5

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number: 70 0050510  
 Date Collected: 04/12/93  
 Date Received: 04/15/93  
 Client Sample ID: MW8-71.2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	04/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	230	04/22/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	04/22/93
Benzene	ug/L	0.5	26	04/22/93
Toluene	ug/L	0.5	7.3	04/22/93
Ethylbenzene	ug/L	0.5	11	04/22/93
Xylenes, Total	ug/L	0.5	38	04/22/93

Mr. Dave Higgins

Page 6

April 26, 1993

PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:

70 0050529

Date Collected:

04/12/93

Date Received:

04/15/93

Client Sample ID:

5S-53.42

Parameter

Units

MDL

DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	220	04/22/93
--	------	----	---	-----	----------

PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-		04/22/93
--	--	--	---	--	----------

Benzene	ug/L	0.5	11		04/22/93
---------	------	-----	----	--	----------

Toluene	ug/L	0.5	5.9		04/22/93
---------	------	-----	-----	--	----------

Ethylbenzene	ug/L	0.5	13		04/22/93
--------------	------	-----	----	--	----------

Xylenes, Total	ug/L	0.5	48		04/22/93
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Mr. Dave Higgins  
 Page 7

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number: 70 0050537  
 Date Collected: 04/12/93  
 Date Received: 04/15/93  
 Client Sample ID: 5D-70.98

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

<u>PURGEABLE FUELS AND AROMATICS</u>			
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	04/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND 04/22/93
<u>PURGEABLE AROMATICS (BTXE BY EPA 8020M):</u>			
Benzene	ug/L	0.5	1.0 04/22/93
Toluene	ug/L	0.5	1.0 04/22/93
Ethylbenzene	ug/L	0.5	2.5 04/22/93
Xylenes, Total	ug/L	0.5	7.4 04/22/93

**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 8

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number: 70 0050545  
 Date Collected: 04/12/93  
 Date Received: 04/15/93  
 Client Sample ID: MW4-53.62

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	04/22/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	360	04/22/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	04/22/93
Benzene	ug/L	0.5	20	04/22/93
Toluene	ug/L	0.5	10	04/22/93
Ethylbenzene	ug/L	0.5	22	04/22/93
Xylenes, Total	ug/L	0.5	80	04/22/93

These data have been reviewed and are approved for release.

*Darrell C. Cain*

Darrell C. Cain  
 Regional Director

Mr. Dave Higgins  
Page 9

FOOTNOTES  
for pages 1 through 8

April 26, 1993  
PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

MDL Method Detection Limit  
ND Not detected at or above the MDL.

**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 10

QUALITY CONTROL DATA

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

PURGEABLE FUELS AND AROMATICS  
 Batch: 70 20573  
 Samples: 70 0050456, 70 0050480

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	96%	94%	2%
Benzene	ug/L	0.5	40.0	88%	88%	0%
Toluene	ug/L	0.5	40.0	90%	88%	2%
Ethylbenzene	ug/L	0.5	40.0	88%	86%	2%
Xylenes, Total	ug/L	0.5	120	90%	88%	2%

**REPORT OF LABORATORY ANALYSIS**

Mr. Dave Higgins  
 Page 11

QUALITY CONTROL DATA

April 26, 1993  
 PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

**PURGEABLE FUELS AND AROMATICS**

Batch: 70 20575

Samples: 70 0050499, 70 0050502, 70 0050510, 70 0050529, 70 0050537  
 70 0050545

**METHOD BLANK:**

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

**LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:**

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	113%	114%	0%
Benzene	ug/L	0.5	40.0	93%	92%	1%
Toluene	ug/L	0.5	40.0	95%	91%	4%
Ethylbenzene	ug/L	0.5	40.0	95%	93%	2%
Xylenes, Total	ug/L	0.5	120	93%	90%	3%



# REPORT OF LABORATORY ANALYSIS

Mr. Dave Higgins  
Page 12

FOOTNOTES  
for pages 10 through 11

April 26, 1993  
PACE Project Number: 430415504

Client Reference: Exxon 7-3399 (EE)

MDL Method Detection Limit  
ND Not detected at or above the MDL.  
RPD Relative Percent Difference





**EXXON COMPANY, U.S.A.**

P.O. Box 4415, Houston, TX 77210-4415

**CHAIN OF CUSTODY**

Novato, CA, 11 Digital Drive, 94949  
(415) 883-6100

Huntington Beach, CA, 5702 Bolsa Avenue, 92649  
(714) 892-2565

430415-504

Consultant's Name: RESNA Industries Page 1 of 2

Address: 3315 Almaden Exp #301, San Jose, CA 95118 Site Location: Hwy 92 Rd

Project #: \_\_\_\_\_ Consultant Project #: 130209101 Consultant Work Release #: 09300190/CO#1

Project Contact: Dave Higgins Phone #: (408) 214-7723 Fax #: 214-243- Laboratory Work Release #: ↓

EXXON Contact: Harla Gucaster  EE  C&M Phone #: (510) 214-8774 Fax #: \_\_\_\_\_ EXXON RAS #: 7-3399

Sampled by (print): Naresh C. Sampler's Signature: \_\_\_\_\_

Shipment Method: Durlington Air Bill #: 178270831 Shipment Date: 4/19/93

TAT:  24 hr  48 hr  72 hr  Standard (5 day)

**ANALYSIS REQUIRED**

Sample Condition as Received  
Temperature °C: 7.0°  
Cooler #: N/A  
Inbound Seal Yes  No   
Outbound Seal Yes  No

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	PACE Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	TRPH EPA 418.1											COMMENTS
MW-11-53.54-R	4/12/93 1100	water	HCC	2	5043.0	X	→ hold												Rec'd 6 voas only
MW-10-57.54-R	1915			2	5044.8	X	→ hold												1 voas only
MW-10-57.54	1970			3	5049.9	X													
MW-11-53.54	1905			3	5050.2	X													
MW-8-71.2-R	1830			2	5045.6	X	→ hold												Rec'd 1 voas only
MW-8-71.2-R	1835			3	5050.0	X													Labeled MW 71.2
55-53.42-R	1930			2	5046.4	X	→ hold												Rec'd 1 voas only
55-53.42	1935			3	5052.9	X													
5D-70.98-R	1945			2	5047.2	X	→ hold												Rec'd 1 voas only
5D-70.98	1850			3	5053.7	X													(4-15-93)

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
<u>Harla Gucaster / RESNA</u> <u>Via BAE</u>	<u>4/19/93</u>	<u>4:00</u>	<u>GARY Zy</u> <u>See date PACE</u>	<u>4-14</u>	<u>4:00</u>	<u>Air bill # 178 270 831</u> <u>4-15-93 Rec'd 6 voas c no label on them. dt.</u> <u>all rinsates on this page on hold per JB Resna</u> <u>4/15/93 (SKM)</u>



EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

CHAIN OF CUSTODY

430415.504

Novato, CA, 11 Digital Drive, 94949  
(415) 883-6100

Huntington Beach, CA, 5702 Bolsa Avenue, 92649  
(714) 892-2565

Consultant's Name: RESNA Industries Page 2 of 2

Address: 3315 Almaden Exp. #3A, San Jose, CA 95118 Site Location: Hepyard Rd.

Project #: \_\_\_\_\_ Consultant Project #: 130009104 Consultant Work Release #: \_\_\_\_\_

Project Contact: Dave Higgins Phone #: (408) 264-7723 Fax #: 264-2435 Laboratory Work Release #: 09300AD/10#1

EXXON Contact: Marta Gueaster  EE  C&M Phone #: (510) 266-8776 Fax #: \_\_\_\_\_ EXXON RAS #: 7-3399

Sampled by (print): Naresh C. Sampler's Signature: \_\_\_\_\_

Shipment Method: Burlington Air Bill #: 178270831 Shipment Date: 4/14/93

TAT:  24 hr  48 hr  72 hr  Standard (5 day) ANALYSIS REQUIRED

Sample Condition as Received  
Temperature ° C: \_\_\_\_\_  
Cooler #: \_\_\_\_\_  
Inbound Seal Yes No  
Outbound Seal Yes No

COMMENTS

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	PACE Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	TRPH EPA 418.1												
MW-53.62R	4/12/93 ↓ 1945	water	HCF	2	5048.0	X														*run this analyte per JBC/RESNA
MW-53.62	↓ 1950	↓	↓	3	5054.5	X														Send 1 vial only per JBC/RESNA SPM 4/15/93

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
<u>Juan Bucardo / RESNA</u>	<u>4/14/93</u>	<u>4:00</u>	<u>CA 7737</u>	<u>4-14</u>	<u>2:00</u>	
<u>via BAE</u>			<u>See above PACT</u>	<u>4/15/93</u>	<u>10:00</u>	