RESNA
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LETTER REPORT
GROUNDWATER MONITORING
AND
REMEDIATION ACTIVITIES
Third Quarter 1993
at
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

130009.01

11-16-93

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November 16, 1993
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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, Groundwater Monitoring and Remediation Activities, Third Quarter 1993 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 third 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).

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.

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.

In July of 1993, the Dublin-San Ramon Services District requested that RESNA temporarily cap the discharge point of the groundwater recovery system because the system was not being used at the time.

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 July 15, August 15, and September 29, 1993, and quarterly sampling was performed on September 29 and 30, 1993. 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. Well MW-7 and MW-11 were not purged due to insufficient water. Wells MW-9 and MW-10 were dry. Groundwater sampled collected from wells MW-4, MW-5s, and MW-8 are considered grab

water samples due to low purge volumes. Field methods are described in Field Protocol (RESNA, August 2, 1993).

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 July and September 1993 from wells in the first water-bearing unit, water levels have decreased approximately 0.4 feet in wells MW-4, MW-5s, MW-7, and MW-11, and have increased an approximately of 6.5 feet in well MW-1 since last quarter. The water level in wells MW-5d (second water-bearing unit) decreased approximately 15 feet, and MW-8 (third water-bearing unit) has increased approximately 4.5 feet since last quarter.

Based on the July 15, 1993, groundwater elevation data, the interpreted local groundwater gradient and flow direction of the shallowest water-bearing unit is approximately 0.1 toward the southwest. Based on the August 15, 1993, groundwater elevation data, the interpreted local groundwater gradient and flow direction of the shallowest water-bearing unit is approximately 0.01 toward the southeast. Based on the September 29, 1993, groundwater elevation data, the interpreted local groundwater gradient and flow direction of the shallowest water-bearing unit is approximately 0.01 toward the southeast. The interpreted flow directions and gradients for August and September are consistent with previous quarters. The interpreted flow direction and gradient for July is not consistent with previous quarters.

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

Wells MW-1, MW-4, MW-5d, MW-5s, and MW-8 were purged and sampled in accordance with RESNA's groundwater sampling protocol (RESNA, August 2, 1993). 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-1, MW-4, MW-5d, MW-5s, and MW-8 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 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-1, MW-4, MW-5d, MW-5s, and MW-8 indicate:

- TPHg and BTEX was less than the laboratory detection limits of 1.0 parts per billion (ppb) and 0.5 ppb, respectively;
- concentrations of 0.6 ppb toluene, 0.7 ethylbenzene, and 2.1 ppb total xylenes were detected in the rinsate blank collected from MW-1.

INTERIM SOIL REMEDIATION

Soil-Vapor Extraction/Treatment 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.

During this quarter, the influent organic vapor measurements have ranged from 0.0 to approximately 1.2 ppmv (part per million by volume) and the effluent measurements were consistently 0.0 ppm (Table 3, Cumulative Results of Field Organic Vapor Measurements). The influent organic vapor measurements this quarter appear to be generally lower than second 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 one carbon changeout event during the first and second quarter. It is calculated that 0.5 lbs (0.08 gallons) of TPHg has been recovered this

quarter bringing the total extracted amount of TPHg to approximately 9 gallons since system startup in October of 1992.

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 gasoline hydrocarbons in the subsurface soils, and whether the system is efficiently removing gasoline hydrocarbons from beneath the site. The organic vapor field measurements during pulsing of the system has been consistently below 5 ppmv.

As a confirmation of the organic vapor field measurements, air samples were collected on September 15, 1993 and submitted to Pace Incorporated laboratories. Six influent samples and one effluent sample were collected at the influent and effluent sample ports of the vapor phase carbon adsorption system. One influent sample represents a collective sample of vapor wells VR-1, VR-2, VR-3, VR-4, and MW-1, and the remaining five influent samples represent individual vapor wells. The individual samples were collected by closing the valves completely on all wells except one (vapor well VR-1 could not be closed at all). The samples were contained in 1-liter mylar bags and analyzed by Pace Incorporated laboratories of Novato, California for TPHg and BTEX using EPA Methods 5030/8015/8020. The chain of custody record and laboratory analyses sheets are included in Appendix B. The results of the air analyses are summarized in Table 4, Cumulative Results of Influent and Effluent Vapor Samples.

Results of the air analyses were as follows:

- effluent sample: TPHg was less than the laboratory detection limit of 50 micrograms per liter (μg/l) and BTEX were less than the laboratory detection limit of 0.5 μg/l, 2.7 μg/l, 1.0 μg/l, and 3.1 μg/L, respectively.

- collective influent sample: TPHg was less than the laboratory detection limit of 50 micrograms per liter (μg/l) and BTEX were less than the laboratory detection limit of 0.5 μg/l, 2.3 μg/l, 1.2 μg/l, and 3.7 μg/L, respectively.

- individual influent samples: TPHg and benzene were less than their laboratory detection limits of 50 and 0.5 μg/l, respectively. Toluene, ethylbenzene, and total xylenes resulted in following

ranges: 1.3 to 3.8 μg/l; 0.8 to 1.3 μg/l; and 2.1 to 4.1 μg/l, respectively.

The laboratory results indicate the field monitoring measurements collected during this third quarter are representative of the lowered gasoline hydrocarbon concentrations in the soil, and that the vapor extraction system has been effectively removing gasoline hydrocarbons from the soil beneath the site.

Since July 2, 1993, the valves on all the vapor extraction wells have been completely open during operation of the vapor extraction/treatment system to allow the maximum organic vapor concentration loading rates. Operation of the system with the valves on all the vapor extraction wells completely open will continue through the fourth quarter 1993. Field monitoring of the carbon system will continue on a bi-weekly basis. If continued operation of the system results in consistently lower organic vapor concentrations, RESNA will submit a request to BAAQMD to perform field monitoring on a monthly basis.

Limitations

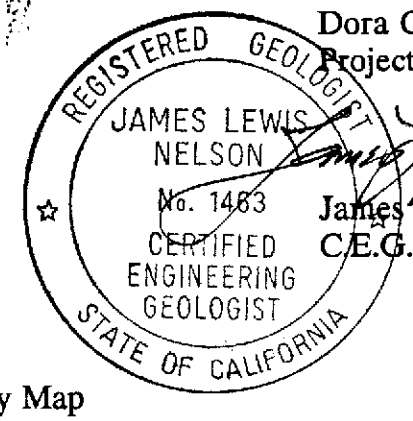
This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company U.S.A. and any reliance on this report by third parties shall be at such party's sole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

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

Sincerely,
RESNA Industries Inc.

Jeanne Buckthal
Geologic Technician

Dora Chew
Project Engineer



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

Enclosures: References

Plate 1: Site Vicinity Map
Plate 2: Generalized Site Plan
Plate 3: Groundwater Gradient Map (July 15, 1993)
Plate 4: Groundwater Gradient Map (August 15, 1993)
Plate 5: Groundwater Gradient Map (September 29, 1993)
Plate 6: TPHg/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, Well Purge Data Sheets
Appendix B, Laboratory Analysis Reports and Chain of Custody Record

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.

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RESNA Industries Inc. June 18, 1992. Letter Report, Groundwater Monitoring, First Quarter 1992 at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

RESNA Industries Inc. July 20, 1992. Letter Report, Groundwater Monitoring, Second Quarter 1992 at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

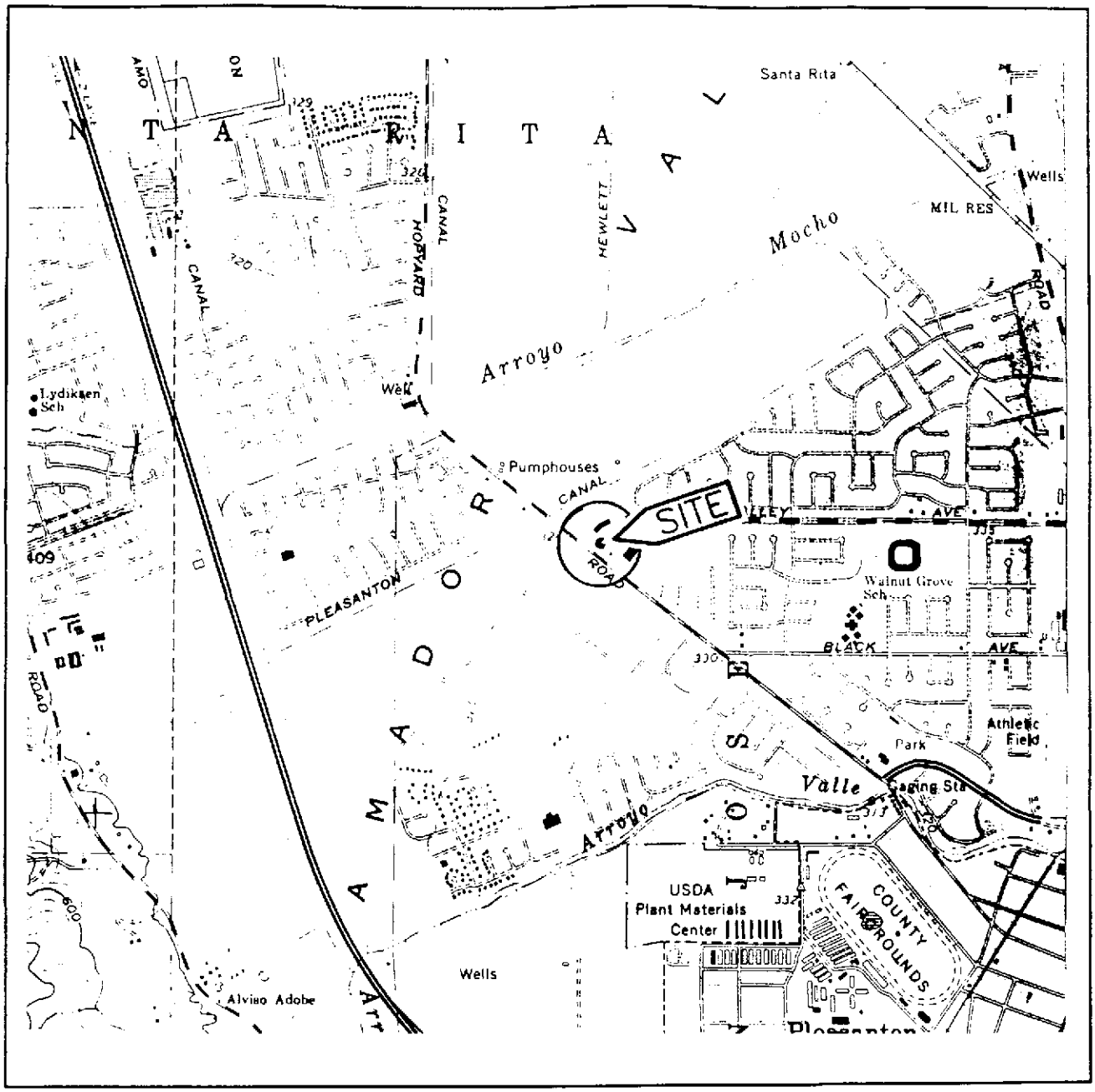
RESNA Industries Inc. December 1, 1992. Letter Report, Groundwater Monitoring, Third Quarter 1992 at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

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, Groundwater Monitoring, Fourth Quarter 1992 at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

RESNA Industries Inc. May 11, 1993. Letter Report, Groundwater Monitoring, First Quarter 1993 at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 130009.01.

RESNA Industries Inc. August 2, 1993. Letter Report, Groundwater Monitoring, Second Quarter 1993 at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 130009.01.



Source: U.S. Geological Survey
7.5–Minute Quadrangle
Dublin, California
Photorevised 1980

N

Approximate Scale
2000 1000 0 2000
feet

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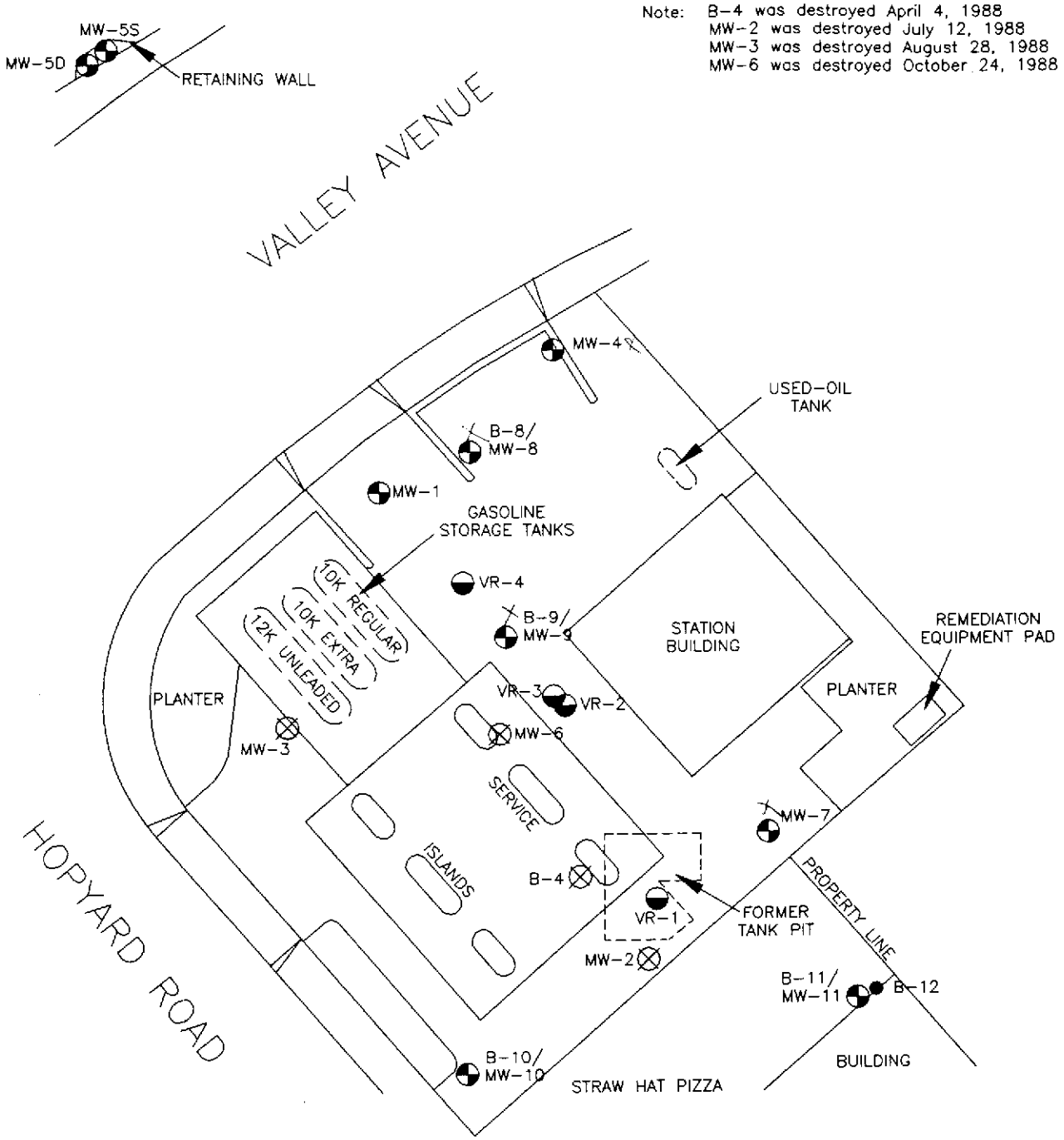
SITE VICINITY MAP
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE
1

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

Approximate Scale

40 20 0 40 80

feet

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

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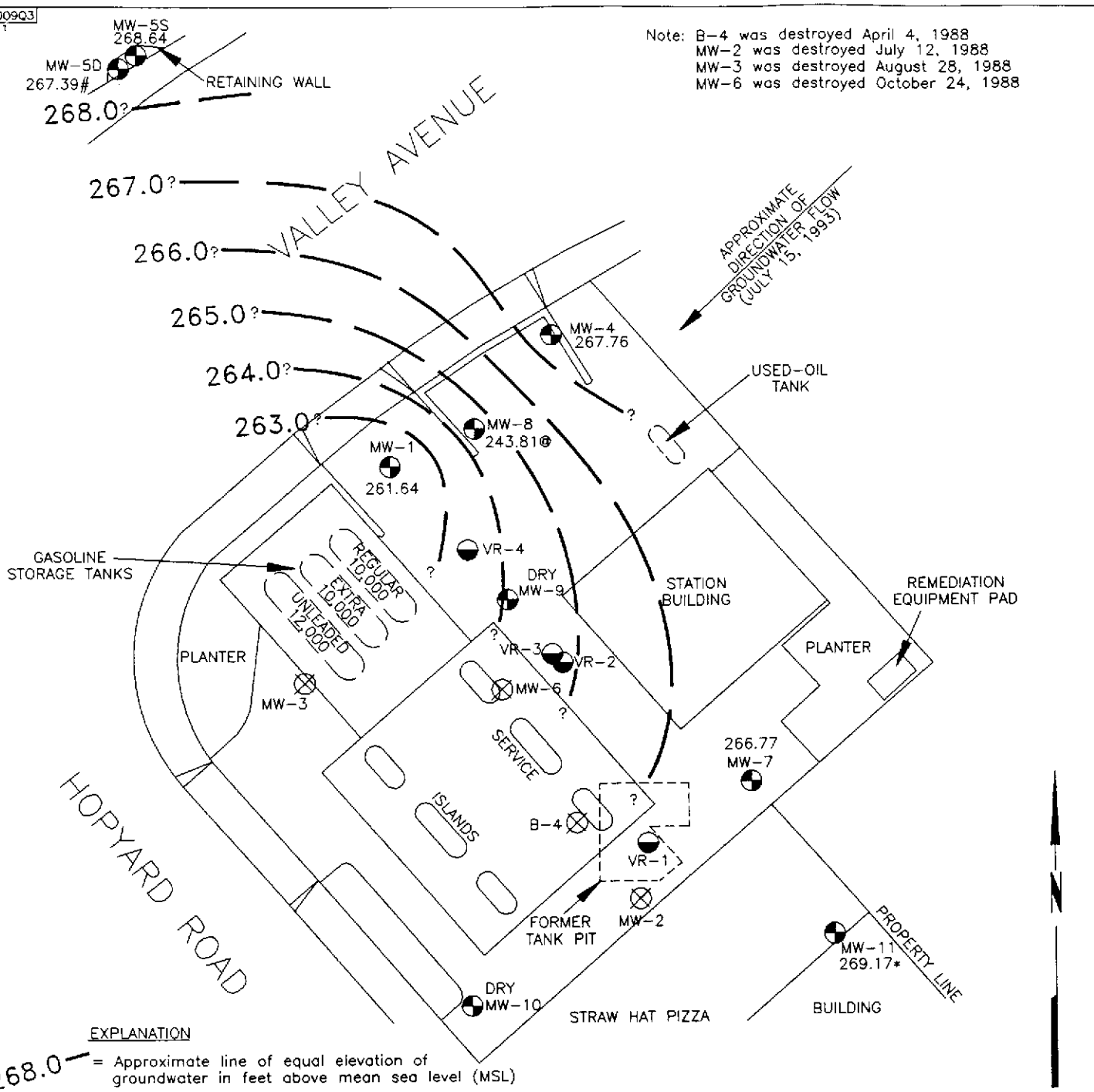
GENERALIZED SITE PLAN
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE 2

130009Q3



EXPLANATION

268.0 — = Approximate line of equal elevation of groundwater in feet above mean sea level (MSL)

268.64 = Elevation of groundwater in feet above mean sea level, July 15, 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

Approximate Scale

40 20 0 40 80

feet

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

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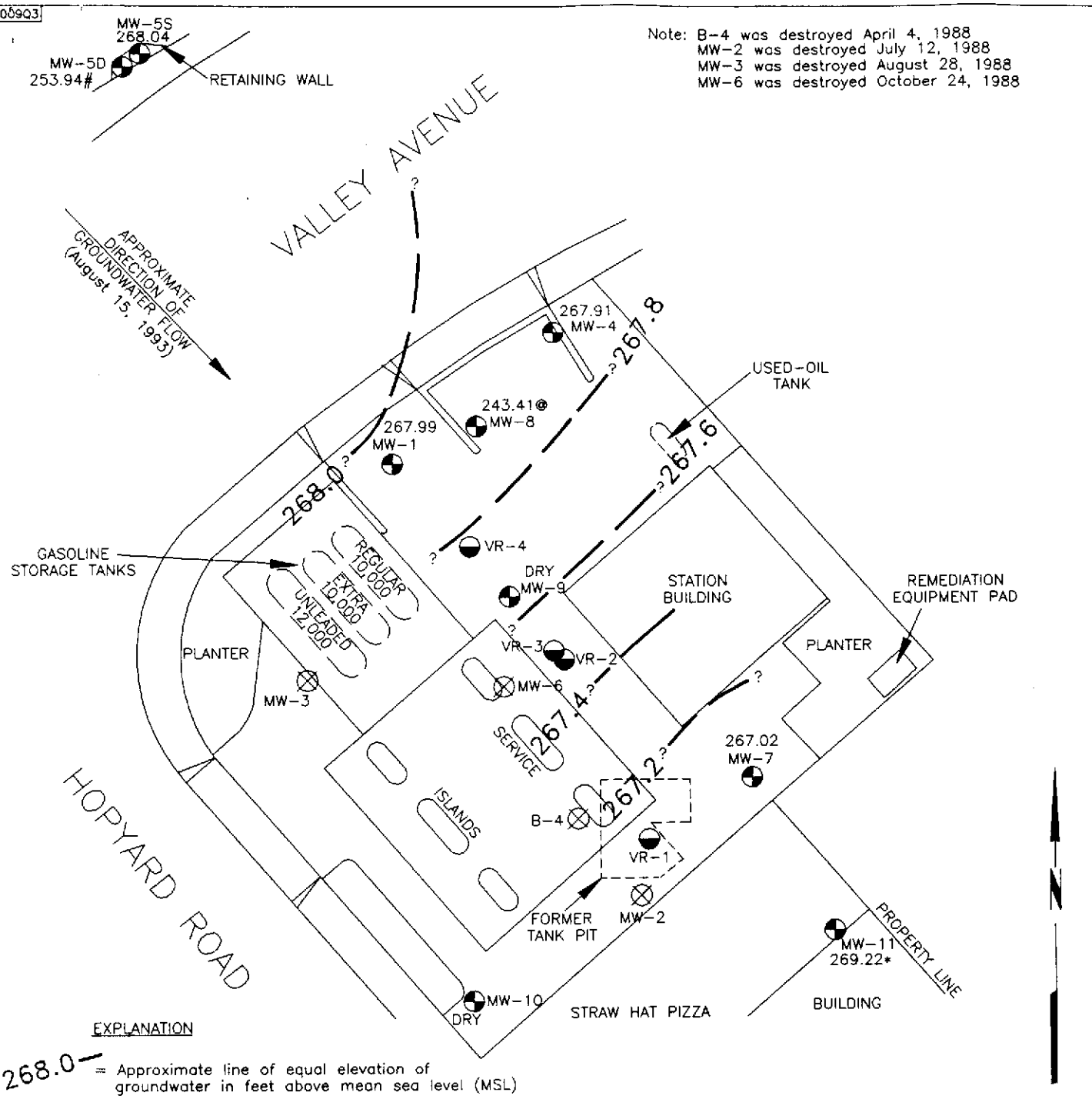
GROUNDWATER GRADIENT MAP
July 15, 1993
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE 3

130009Q3



EXPLANATION

268.0 — = Approximate line of equal elevation of groundwater in feet above mean sea level (MSL)

267.02 = Elevation of groundwater in feet above MSL, August 15, 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

Approximate Scale

40 20 0 40 80

feet

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

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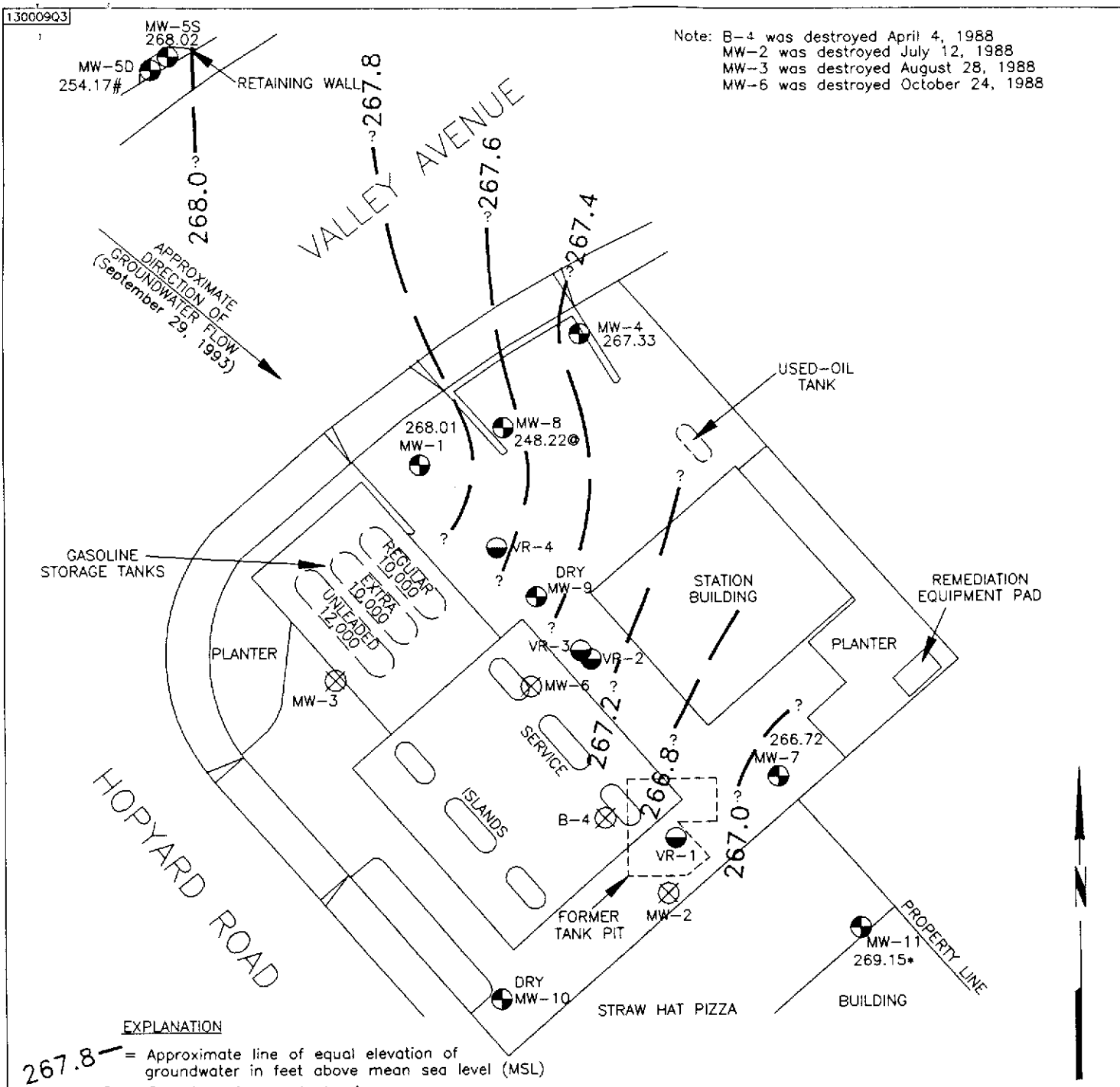
GROUNDWATER GRADIENT MAP
August 15, 1993
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE 4



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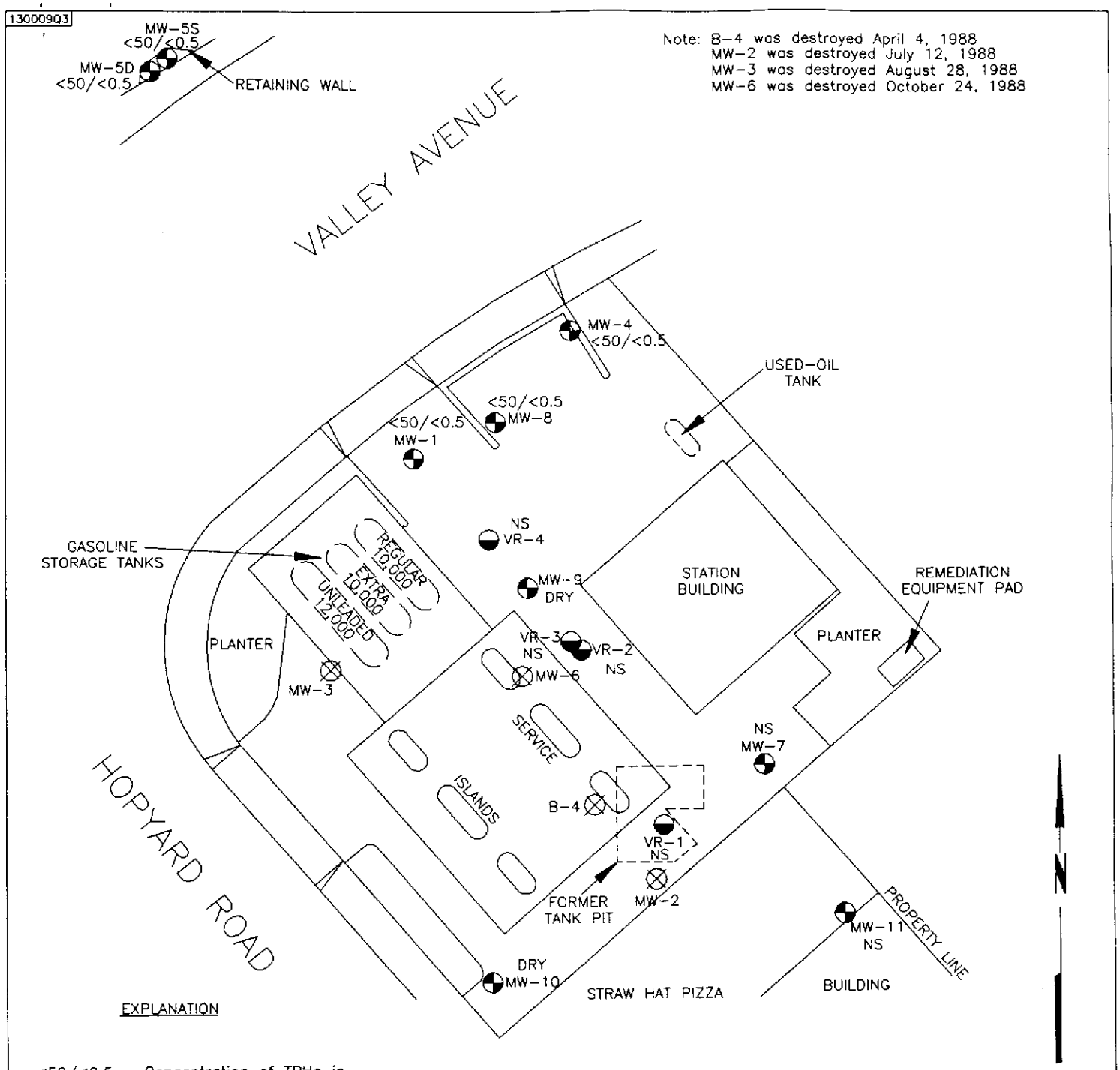
GROUNDWATER GRADIENT MAP
September 29, 1993
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE 5

13000903



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

<50/<0.5 = Concentration of TPHg in groundwater in parts per billion, September 29-30, 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

Approximate Scale

40 20 0 40 80

feet

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

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

PLATE 6

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California
Page 1 of 17
See notes on page 17

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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

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		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

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
	07/15/93		59.80	261.64	None
	08/15/93		53.45	267.99	None
	09/29/93		53.43	268.01	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
	07/12/88		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
	08/29/88		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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-4	06/23/88		38.83	282.73	None
cont.	06/28/88		39.28	282.28	None
	07/06/88		39.85	281.71	None
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California
Page 5 of 17
See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-4	04/18/90		48.90	272.66	None
cont.	05/17/90		50.03	271.53	None
	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	None
	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	268.04	None
	07/15/93		53.80	267.76	None
	08/15/93		53.65	267.91	None
	09/29/93		54.23	267.33	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
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
	07/06/88		40.69	281.10	None
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5d	03/26/90		49.77	272.02	None
cont.	04/18/90		49.80	271.99	None
	05/17/90		51.32	270.47	None
	06/11/90		52.10	269.69	None
	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	254.15	None
	07/15/93		54.40	267.39	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5d	08/15/93		67.85	253.94	None
cont.	09/29/93		67.62	254.17	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
	07/13/88		40.90	280.74	None
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5s	01/26/90		49.40	272.24	None
cont.	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
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5s	06/01/93		53.56	268.08	None
cont.	07/15/93		53.00	268.64	None
	08/15/93		53.60	268.04	None
	09/29/93		53.62	268.02	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
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-7	03/26/90		48.60	272.67	None
cont.	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
	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	266.37	None
	07/15/93		54.50	266.77	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-7	08/15/93		54.25	267.02	None
cont.	09/29/93		54.55	266.72	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
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-8	01/26/93		78.63	243.23	None
cont.	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	253.82	None
	07/15/93		78.05	243.81	None
	08/15/93		78.45	243.41	None
	09/29/93		73.64	248.22	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
	01/02/89		NA		
	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		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California
Page 14 of 17
See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-9	12/30/91		NA		
cont.	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		
	02/16/93		DRY		
	03/11/93		DRY		
	04/12/93		DRY		
	06/01/93		DRY		
	07/15/93		DRY		
	08/15/93		DRY		
	09/29/93		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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California
Page 15 of 17
See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-10	06/11/90		51.16	271.83	None
cont.	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		
	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	265.11	None
	07/15/93		DRY		
	08/15/93		DRY		
	09/29/93		DRY		

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California

See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
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
	03/02/92		53.68	269.09	None
	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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-3399
Pleasanton, California
Page 17 of 17
See notes on page 17

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-11	01/26/93		53.67	269.10	None
cont.	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
	07/15/93		53.60	269.17	None
	08/15/93		53.55	269.22	None
	09/29/93		53.62	269.15	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 possibley 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

See notes on page 11

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
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					
	09/30/93	<50	<0.5	<0.5	<0.5	<0.5	NA
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
	09/30/93	<50	<0.5	<0.5	<0.5	<0.5	NA

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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 cont.	02/16/93	Not Sampled					
	04/12/93	<50	1.0	1.0	2.5	7.4	NA
	09/30/93	<50	<0.5	<0.5	<0.5	<0.5	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	08/01/90	<50	<0.5	<0.5	<0.5	<0.5	NA
cont.	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
	09/30/93	<50	<0.5	<0.5	<0.5	<0.5	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

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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					
	09/30/93	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

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

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
	09/30/93	<50	<0.5	<0.5	<0.5	<0.5	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					
	09/30/93	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

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	08/01/90	<20	<0.5	<0.5	<0.5	<0.5	NA
cont.	12/10/92	Not Sampled					
	02/16/93	Not Sampled					
	04/12/93	350	21	11	21	75	NA
	09/30/93	Not Sampled					
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
	09/30/93	Not Sampled					
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					
	09/30/93	Not Sampled					

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

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	VOCs
MW-1R	09/30/93	<50	<0.5	0.6	0.7	2.1	NA
	MCLs	---	1.0	---	680	1,750	---
	DWAL	---	---	100	---	---	---

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 3
See notes on page 3

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 3
See notes on page 3

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
04/14/93*	0.0	0.0	0.0	0.0
05/07/93	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
07/02/93	0.0	0.0	0.0	0.0
07/15/93	0.5	0.0	0.0	0.0
07/31/93	0.0	0.0	0.0	0.0
08/15/93	1.2	0.0	0.0	0.0
08/27/93	0.0	0.0	0.0	0.0
09/11/93	0.0	0.0	0.0	0.0
09/15/93	Collected Air Samples--See Table 4			

TABLE 3
CUMULATIVVE RESULTS OF FIELD ORGANIC VAPOR MEASUREMENTS
Exxon Station 7-3399
Pleasanton, California
Page 3 of 3

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

TABLE 4
CUMULATIVE RESULTS OF INFLUENT AND EFFLUENT VAPOR SAMPLES
Exxon Station 7-3399
Pleasanton, California
Page 1 of 2
See notes on page 2

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*
09/15/93	influent	<50**	<0.5**	2.3**	1.2**	3.7**
	effluent	<50**	<0.5**	2.7**	1.0**	3.1**
	VR-1	<50**	<0.5**	3.8**	1.2**	4.0**
	VR-1 + VR-2	<50**	<0.5**	1.3**	1.2**	4.0**
	VR-1 + VR-3	<50**	<0.5**	2.0**	0.8**	2.1**
	VR-1 + VR-4	<50**	<0.5**	2.1**	1.1**	3.3**
	VR-1 + MW-1	<50**	<0.5**	1.6**	1.3**	4.1**

TABLE 4
CUMULATIVE RESULTS OF INDLUENT AND EFFLUENT VAPOR SAMPLES
Exxon Station 7-3399
Pleasanton, California
Page 2 of 2

Results are in parts per million per volume (ppmv)		
<	:	Less than the method detection limit.
TPHg	:	total petroleum hydrocarbons as gasoline analyzed by modified EPA method 5030/8015.
*	:	Results in milligrams per cubic meter (mg/m^3).
**	:	Results in micrograms per liter (μ/L).
VR-1	:	Vapor extraction well 1
VR-2	:	Vapor extraction well 2
VR-3	:	Vapor extraction well 3
VR-4	:	Vapor extraction well 4
MW-1	:	Groundwater monitoring well 1

APPENDIX A

WELL PURGE DATA SHEETS

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-3399 Job No. 130009.01

Date: September 29, 1993 Page 1 of 1

Well No. MW-1 Time Started 1355

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1355	Start purging MW-1				
1355	0	82.2	6.89	1.21	>200
1405	1	78.0	6.84	1.15	>200
1410	2	76.8	6.79	1.12	>200
1420	3	79.0	7.02	1.18	>200
1453	4.5	78.3	6.92	1.21	>200
1453	Stop purging MW-1				

Notes:

Well Diameter (inches)	:	4
Depth to Bottom (feet)	:	55.12
Depth to Water - initial (feet)	:	53.43
Depth to Water - final (feet)	:	53.46
% recovery	:	98
Time Sampled	:	1230 9/30
Gallons per Well Casing Volume	:	1.10
Gallons Purged	:	4.5
Well Casing Volume Purged	:	4.1
Approximate Pumping Rate (gpm)	:	0.08
Not Applicable	:	NA

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-3399 Job No. 130009.01

Date: September 30, 1993 Page 1 of 1

Well No. MW-4 Time Started 1150

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
	Start purging MW-4				
1150	0	77.9	6.95	1.10	140.5
1158	2	74.6	7.15	1.05	>200
1249	4	76.1	7.17	1.06	>200
1407	6	79.7	7.40	1.03	>200
	DRY				
1445	6.5	75.2	7.44	1.02	>200
	Stop purging MW-4				

Notes:

Well Diameter (inches) :	4
Depth to Bottom (feet) :	65.82
Depth to Water - initial (feet) :	53.63
Depth to Water - final (feet) :	54.23
% recovery :	95.1
Time Sampled :	1700
Gallons per Well Casing Volume :	7.95
Gallons Purged :	6.5
Well Casing Volume Purged :	0.81
Approximate Pumping Rate (gpm) :	0.03
Not Applicable :	NA

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-3399 Job No. 130009.01

Date: September 29, 1993 Page 1 of 1

Well No. MW-5d Time Started 1717

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
	Start purging MW-5d				
1710	0	77.7	6.85	0.59	1.9
1717	6.5	72.9	7.13	0.93	117.4
1724	13	71.9	7.28	0.94	14.0
1730	19.5	70.7	7.22	0.95	6.2
1736	26	70.3	7.13	0.97	4.8
	Stop purging MW-5d				

Notes:

Well Diameter (inches)	:	4
Depth to Bottom (feet)	:	77.58
Depth to Water - initial (feet)	:	67.51
Depth to Water - final (feet)	:	67.62
% recovery	:	98.9
Time Sampled	:	1320 9/30
Gallons per Well Casing Volume	:	15.43
Gallons Purged	:	26
Well Casing Volume Purged	:	1.68
Approximate Pumping Rate (gpm)	:	1.0
Not Applicable	:	NA

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-3399 Job No. 130009.01

Date: September 29, 1993 Page 1 of 1

Well No. MW-5s Time Started 1545

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1545	Start purging MW-				
1545	0	74.5	6.93	1.38	6.1
1603	0.7	73.4	6.78	1.37	>200
1735	1.4	69.4	6.93	1.34	>200
1742	2.1	69.1	6.83	1.34	>200
1800	2.8	69.3	6.80	1.36	>200
	Stop purging MW-5s				

Notes:

Well Diameter (inches) :	4
Depth to Bottom (feet) :	54.70
Depth to Water - initial (feet) :	53.62
Depth to Water - final (feet) :	53.62
% recovery :	100
Time Sampled :	1400 9/30
Gallons per Well Casing Volume :	0.7
Gallons Purged :	2.8
Well Casing Volume Purged :	4.0
Approximate Pumping Rate (gpm) :	0.02
Not Applicable :	NA

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-3399 Job No. 130009.01

Date: September 29, 1993 Page 1 of 1

Well No. MW-8 Time Started 1507

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
	Start purging MW-				
1507	0	74.9	7.13	0.56	9.2
1524	40	75.4	6.99	0.55	2.3
1540	80	74.6	7.03	0.55	1.7
1556	120	72.4	7.31	0.56	2.0
1613	160	74.1	7.05	0.57	11.1
	Stop purging MW-8				

Notes:

Well Diameter (inches)	:	4
Depth to Bottom (feet)	:	135
Depth to Water - initial (feet)	:	73.64
Depth to Water - final (feet)	:	75.32
% recovery	:	97
Time Sampled	:	1420 9/30
Gallons per Well Casing Volume	:	40.0
Gallons Purged	:	160
Well Casing Volume Purged	:	4
Approximate Pumping Rate (gpm)	:	2.4
Not Applicable	:	NA

APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORD

130009.01

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

October 11, 1993

RECEIVED
OCT 14 1993
RESNA
SAN JOSE

Mr. Marc Briggs
RESNA
3315 Almaden Expressway Suite 34
San Jose, CA 95118

RE: PACE Project No. 431004.503
Client Reference: Exxon 7-3399 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received October 04, 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,

Stephanie Matzo

Stephanie Matzo
Project Manager

Enclosures

11 Digital Drive
Novato, CA 94949
TEL: 415-883-6100
FAX: 415-883-2673

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

RESNA
3315 Almaden Expressway Suite 34
San Jose, CA 95118

October 11, 1993
PACE Project Number: 431004503

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165458	
Date Collected:			09/29/93	
Date Received:			10/04/93	
Client Sample ID:			Rinsate	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/07/93
Benzene	ug/L	0.5	ND	10/07/93
Toluene	ug/L	0.5	ND	10/07/93
Ethylbenzene	ug/L	0.5	ND	10/07/93
Xylenes, Total	ug/L	0.5	ND	10/07/93

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REPORT OF LABORATORY ANALYSIS

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165466	
Date Collected:			09/30/93	
Date Received:			10/04/93	
Client Sample ID:			MW-1R	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/07/93
Benzene	ug/L	0.5	ND	10/07/93
Toluene	ug/L	0.5	0.6	10/07/93
Ethylbenzene	ug/L	0.5	0.7	10/07/93
Xylenes, Total	ug/L	0.5	2.1	10/07/93

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REPORT OF LABORATORY ANALYSIS

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165474	
Date Collected:			09/30/93	
Date Received:			10/04/93	
Client Sample ID:			W-53-MW-1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/07/93
Benzene	ug/L	0.5	ND	10/07/93
Toluene	ug/L	0.5	ND	10/07/93
Ethylbenzene	ug/L	0.5	ND	10/07/93
Xylenes, Total	ug/L	0.5	ND	10/07/93

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REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 4

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165490	
Date Collected:			09/30/93	
Date Received:			10/04/93	
Client Sample ID:			W-67-MW-5D	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/07/93
Benzene	ug/L	0.5	ND	10/07/93
Toluene	ug/L	0.5	ND	10/07/93
Ethylbenzene	ug/L	0.5	ND	10/07/93
Xylenes, Total	ug/L	0.5	ND	10/07/93

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REPORT OF LABORATORY ANALYSIS

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165512	
Date Collected:			09/30/93	
Date Received:			10/04/93	
Client Sample ID:			W-53-MW5S	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/07/93
Benzene	ug/L	0.5	ND	10/07/93
Toluene	ug/L	0.5	ND	10/07/93
Ethylbenzene	ug/L	0.5	ND	10/07/93
Xylenes, Total	ug/L	0.5	ND	10/07/93

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REPORT OF LABORATORY ANALYSIS

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165539	
Date Collected:			09/30/93	
Date Received:			10/04/93	
Client Sample ID:			W-75-MW8	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/07/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/07/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/07/93
Benzene	ug/L	0.5	ND	10/07/93
Toluene	ug/L	0.5	ND	10/07/93
Ethylbenzene	ug/L	0.5	ND	10/07/93
Xylenes, Total	ug/L	0.5	ND	10/07/93

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0165555	
Date Collected:			09/30/93	
Date Received:			10/04/93	
Client Sample ID:			W-54-MW4	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/08/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/08/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/08/93
Benzene	ug/L	0.5	ND	10/08/93
Toluene	ug/L	0.5	ND	10/08/93
Ethylbenzene	ug/L	0.5	ND	10/08/93
Xylenes, Total	ug/L	0.5	ND	10/08/93

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

11 Digital Drive
Novato, CA 94949
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Mr. Marc Briggs
Page 8

FOOTNOTES
for pages 1 through 7

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

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

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Mr. Marc Briggs QUALITY CONTROL DATA October 11, 1993
Page 9 PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 25320
Samples: 70 0165458, 70 0165466, 70 0165474, 70 0165490, 70 0165512
70 0165539, 70 0165555

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	112%	111%	0%
Benzene	ug/L	0.5	100	110%	109%	0%
Toluene	ug/L	0.5	100	113%	113%	0%
Ethylbenzene	ug/L	0.5	100	111%	111%	0%
Xylenes, Total	ug/L	0.5	300	112%	112%	0%

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Mr. Marc Briggs
Page 10

FOOTNOTES
for page 9

October 11, 1993
PACE Project Number: 431004503

Client Reference: Exxon 7-3399 (EE)

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

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431004.503

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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

Consultant's Name: RESNA

Page 1 of 2

Address: 3315 Almaden Expwy, San Jose CA 95118

Site Location: 2991 Hopyard Rd.

Project #:

Consultant Project #: 130009.01

Consultant Work Release #:

Project Contact: Joan Buckthal/Mark Boggs

Phone #: (408) 264-7723 Fax #: 264-2435

Laboratory Work Release #: 09300140/Co #1

EXXON Contact: Marla Guender [✓] EE [ ] C&M

Phone #: (510) 246-8776 Fax #: —

EXXON RAS #: 7-3399

Sampled by (print): Chris Allen

Sampler's Signature: Chris Allen

Shipment Method: Courier

Air Bill #:

Shipment Date: 10-4-93

TAT: [ ] 24 hr [ ] 48 hr [ ] 72 hr [✓] Standard (5 day)

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

ANALYSIS REQUIRED

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	Hold								COMMENTS
Rinsate	9/29	H_2O	HCl	2	0165458	X											
MW1R	9/30	↓	↓	2	0165466	X											
W-53-MW1	9/30 12:30			3	0165474	X											
MW5D-R	9/30			2	0165482				X								
~~W-67~~																	
W-67-MW5D	9/30 1:20			3	0165490	X											
MW55-R	9/30			2	0165504				X								
W-53-MW55	9/30 2:00			3	0165512	X											
MW8R	9/30			2	0165520				X								
W-75-MW8	9/30 2:20	↓	↓	3	0165539	X											

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
Chris Allen	9/30	1630	El Kelly / Pace	10/4	(44)	
El Kelly / Pace	10/4	1700	Jennifer McIntosh Pace	10/4	1710	

Distribution: White - Original Yellow - Exxon Pink - Lab Goldenrod - Consultant Field Staff

31004 503

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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

Consultant's Name: RESNA

Address: 3315 Almaden Expwy., San Jose, CA 95118

Site Location: 2991 Hopyard Rd

Project #:

Consultant Project #: 130009.01

Consultant Work Release #:

Project Contact: Jane Buckthal/Mark Briggs

Phone # (408) 264-7723 Fax #: 264-2435

Laboratory Work Release #: 09300140/C0 #1

EXXON Contact: Karla Guensler [✓] EE [ ] C&M

Phone # (510) 246-8776 Fax #:

EXXON RAS #: 7-3389

Sampled by (print): Chris Allen

Sampler's Signature: Chris Allen

Shipment Method: Courier

Air Bill #:

Shipment Date: 10-4-93

TAT: [ ] 24 hr [ ] 48 hr [ ] 72 hr [✓] Standard (5 day)

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	Hold								
MW7R	9/30	H2O	HCL	2	0165541				X								
W-54-MW4	9/30 5:00	"	"	3	0165555	X											

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

COMMENTS

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Chris Allen	9/30	6:30	Ed Fallon Pace	10/4	1445
Ed Fallon Pace	10/4	1710	Vernon McIntosh Pace	10/4	1710

Additional Comments:

Distribution: White - Original Yellow - Exxon Pink - Lab Goldenrod - Consultant Field Staff

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130009.02

REPORT OF LABORATORY ANALYSIS

September 21, 1993

RECEIVED
SEP 23 1993
RESNA
SAN JOSE

Ms. Dora Chew
RESNA
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

RE: PACE Project No. 430916.516
Client Reference: Exxon 7-3399 (EE)

Dear Ms. Chew:

Enclosed is the report of laboratory analyses for samples received September 16, 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,

Stacy P. Hoch

Stacy P. Hoch
Project Manager

Enclosures

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REPORT OF LABORATORY ANALYSIS

RESNA
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

September 21, 1993
PACE Project Number: 430916516

Attn: Ms. Dora Chew

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154561	
Date Collected:			09/15/93	
Date Received:			09/16/93	
			INF	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	2.3	09/19/93
Ethylbenzene	ug/L	0.5	1.2	09/19/93
Xylenes, Total	ug/L	0.5	3.7	09/19/93

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REPORT OF LABORATORY ANALYSIS

Ms. Dora Chew
Page 2

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154588	
Date Collected:			09/15/93	
Date Received:			09/16/93	
Client Sample ID:			EFF	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	2.7	09/19/93
Ethylbenzene	ug/L	0.5	1.0	09/19/93
Xylenes, Total	ug/L	0.5	3.1	09/19/93

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REPORT OF LABORATORY ANALYSIS

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154596	
Date Collected:			09/15/93	
Date Received:			09/16/93	
Client Sample ID:			VR-1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	3.8	09/19/93
Ethylbenzene	ug/L	0.5	1.2	09/19/93
Xylenes, Total	ug/L	0.5	4.0	09/19/93

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REPORT OF LABORATORY ANALYSIS

Ms. Dora Chew
Page 4

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154600	
Date Collected:			09/15/93	
Date Received:			09/16/93	
Client Sample ID:			VR-1+VR-2	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	1.3	09/19/93
Ethylbenzene	ug/L	0.5	1.2	09/19/93
Xylenes, Total	ug/L	0.5	4.0	09/19/93

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REPORT OF LABORATORY ANALYSIS

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154618	
Date Collected:			09/15/93	
Date Received:			09/16/93	
Client Sample ID:			VR-1+VR-3	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	2.0	09/19/93
Ethylbenzene	ug/L	0.5	0.8	09/19/93
Xylenes, Total	ug/L	0.5	2.1	09/19/93

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REPORT OF LABORATORY ANALYSIS

Ms. Dora Chew
Page 6

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154626	
Date Collected:			09/15/93	
Date Received:			09/16/93	
Client Sample ID:			VR-1+VR-4	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	2.1	09/19/93
Ethylbenzene	ug/L	0.5	1.1	09/19/93
Xylenes, Total	ug/L	0.5	3.3	09/19/93

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REPORT OF LABORATORY ANALYSIS

Ms. Dora Chew
Page 7

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0154634	
Date Collected:			09/15/93	
Date Received:			09/16/93	
Client Sample ID:			VR-1+MW-1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS-AIR (M8015/8020)				
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND	09/19/93
Volatile Aromatic Compounds (EPA M8020)			-	09/19/93
Benzene	ug/L	0.5	ND	09/19/93
Toluene	ug/L	0.5	1.6	09/19/93
Ethylbenzene	ug/L	0.5	1.3	09/19/93
Xylenes, Total	ug/L	0.5	4.1	09/19/93

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

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Ms. Dora Chew
Page 8

FOOTNOTES
for pages 1 through 7

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

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

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Page 9

QUALITY CONTROL DATA

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

GASOLINE AND AROMATICS-AIR (M8015/8020)
Batch: 70 24344
Samples: 70 0154561, 70 0154588

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND
Volatile Aromatic Compounds (EPA M8020)			-
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
Non-Methane Hydrocarbons, as n-octane	ug/L	50	483	105%	110%	4%
Benzene	ug/L	0.5	64	106%	97%	8%
Toluene	ug/L	0.5	76	107%	97%	9%
Ethylbenzene	ug/L	0.5	86	106%	97%	8%
Xylenes, Total	ug/L	0.5	254	108%	99%	8%

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Client Reference: Exxon 7-3399 (EE)

GASOLINE AND AROMATICS-AIR (M8015/8020)
Batch: 70 24667
Samples: 70 0154596, 70 0154600, 70 0154618, 70 0154626, 70 0154634

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Non-Methane Hydrocarbons, as n-octane	ug/L	50	ND
Volatile Aromatic Compounds (EPA M8020)			-
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
Non-Methane Hydrocarbons, as n-octane	ug/L	50	482	120%	117%	2%
Benzene	ug/L	0.5	64	98%	94%	4%
Toluene	ug/L	0.5	76	99%	95%	4%
Ethylbenzene	ug/L	0.5	86	100%	95%	5%
Xylenes, Total	ug/L	0.5	254	103%	98%	4%

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Page 11

FOOTNOTES
for pages 9 through 10

September 21, 1993
PACE Project Number: 430916516

Client Reference: Exxon 7-3399 (EE)

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

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EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

430916.516

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

Consultant's Name: RESNA

Page 1 of 1

Address: 3315 Alameda Expy, Suite 34, San Jose, CA - 95118

Site Location: 2991 Hopyard Rd, Pleasanton

Project #:

Consultant Project #: 13000902

Consultant Work Release #: 09300140

Project Contact: Dora Chow

Phone #: (408) 261-7723 Fax #: 261-2639

Laboratory Work Release #:

EXXON Contact: Marla Gwensley ☐ EE ☐ C&M

Phone #: (510) 246-8776 Fax #:

EXXON RAS #: 7-3399

Sampled by (print): NARESH

Sampler's Signature: Naresh

Shipment Method:

Air Bill #:

Shipment Date:

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

ANALYSIS REQUIRED

Sample Condition as Received
Temperature ° C: PACE
Cooler #: COURIER
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
INF	09/15 11 AM	Air	None	1	154526	✓											
EFF	"	"	"	1	154588	✓											
VR-1				1	15459.6	✓											
VR-1 + VR 2				1	15460.0	✓											
VR-1 + VR-3				1	15461.8	✓											
VR-1 + VR-4				1	15462.6	✓											
VR-1 + MW 1	"	"	"	1	15463.4	✓											

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
[signature] - PACO	9/16/93	1845	[signature] PACO	9/16/93	1515	
			[signature] Pace	9-16-93	1845	

Distribution: White - Original Yellow - Exxon Pink - Lab Goldenrod - Consultant Field Staff