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TO: ERIC

**ENVIRONMENTAL RESOLUTIONS, INC.****RECOMMENDATION FOR CASE CLOSURE**

for

Former Exxon Service Station No. 7-0218  
23990 Hesperian Boulevard  
Hayward, California

For ExxonMobil Oil Corporation

**1.0 INTRODUCTION**

At the request of ExxonMobil Oil Corporation (formerly Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) has reviewed the cumulative results of environmental investigations for former Exxon Service Station No. 7-0218, in Hayward, California. Based on those results, and our knowledge of site conditions, ERI is recommending case closure. A comprehensive request for case closure was requested in a letter (via electronic mail) from the City of Hayward Fire Department (the City) dated January 30, 2001 (Attachment A). This document summarizes the results of previous investigations.

**1.1 Setting**

The site is located on the northern corner of Winton Avenue and Hesperian Boulevard as shown on the Site Vicinity Map (Plate 1). The locations of the station building, dispensers, underground storage tanks (USTs), and other selected site features are shown on the Generalized Site Plan (Plate 2).

The property, including the station facilities, was sold to BNY Western Trust on June 16, 2000, and the site currently operates as a Valero Service Station.

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## 1.2 Summary of Site Activities

A summary of site activities follows. Pertinent reports are listed in Section 8.0, References.

The investigation began at this site during a property transfer between Texaco and ExxonMobil in 1988.

- November 1985: USTs and product lines were replaced with double-walled USTs and double-contained product lines.
- May 23, 1988: A Sensitive Receptor Survey was performed.
- June 14 and 15, 1988: Texaco installed three groundwater monitoring wells (MW3A through MW3C). Groundwater samples were collected.
- September 28, 1988: Texaco drilled three soil borings (B-1 through B-3) and installed two monitoring wells (MW-3D and MW-3E). Soil and groundwater samples were collected.
- January 20, 1989: Texaco drilled three soil borings (B-4 through B-6) and installed two monitoring wells (MW-3F and MW-3G). Soil and groundwater samples were collected.
- February 26, 1990: One soil boring (B-7) was drilled. Soil samples were collected.
- July 13, 1990: One monitoring well was drilled and installed, and groundwater samples were collected.
- April 1991: Began semi-annual groundwater monitoring. [Resna Industries, Inc. (Resna)]
- July 9, 1993: Ceecon performed a soil vapor-extraction test. The test indicated the presence of halogenated volatile organic compounds (HVOCs).
- January 1994: Began quarterly groundwater monitoring. [Blaine Tech Services]
- February 17, 1994: Report submitted by Terra Vac Corporation for the drilling and installation of eight vapor-extraction wells (VW1 through VW8). Total petroleum hydrocarbons as gasoline (TPHg) and benzene were detected in soil samples at a maximum concentration of 810 and 86 milligrams per kilogram (mg/Kg).
- October 28, 1994: Krazan & Associates, under contract of Taco Bell Corporation, drilled three soil borings (B1 through B3) and hand-augered one boring (HAI). Laboratory analyses detected total petroleum hydrocarbons as diesel (TPHd) at a maximum

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concentration of 1.9 mg/Kg. TPHg and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were not detected in soil samples at or above laboratory detection limits. Groundwater analyses detected TPHd, TPHg, and benzene at a maximum concentration of 83,000 micrograms per liter (ug/L), 28,000 ug/L, and 380 ug/L, respectively. Boring locations are shown in Appendix B.

June 19, 1995: Texaco installed three air sparge wells (SP-1 through SP-3). Laboratory analyses of soil samples detected TPHg at a maximum concentration of 7.9 mg/Kg and benzene at 0.030 mg/Kg.

Sept. 1994 through April 1995: Texaco operated a dual-phase extraction (DPE) remediation system at the site.

July 25, 1995: Report submitted by Terra Vac Corporation for the drilling and installation of three air-sparge wells (SP1 through SP3). TPHg and BTEX were not detected at or above the laboratory detection limits.

January 1996: Texaco submitted a Non-Attainment Area Management Plan (NAAMP), which included a Compliance Monitoring Program (CMP).

June 1996: Texaco implemented the CMP.

July 31, through August 5, 1996: Air sparge wells SP-1 through SP-3, monitoring wells MW-3C through MW-3E, and vapor-extraction wells VW-1 through VW-9 were destroyed.

August 23 and September 9, 1996: Product lines were removed. Laboratory analyses of soil samples collected beneath product lines detected TPHd at a maximum concentration of 12 mg/Kg. TPHg and BTEX were not detected at or above laboratory detection limits.

January 14, 1997: One 550-gallon single-walled fiberglass used-oil UST was removed. No holes or cracks were observed in the UST, and no groundwater was observed in the UST cavity. Laboratory analyses of soil samples detected total recoverable petroleum hydrocarbons (TRPH), TPHd, and total lead at a maximum concentration of 220 mg/Kg, 2.1 mg/Kg, and 11 mg/Kg, respectively.

1998: ExxonMobil assumed the environmental investigation of the site.

1999: ExxonMobil completed the requirements of the CMP, and submitted a request for no further action.

December 22, 1999: ACC Environmental Consultants (ACC) drilled two soil borings (B1 and B2) downgradient of the former USTs at 994 West Winton Avenue in Hayward, California. Laboratory analyses of soil samples detected TPHg at a maximum concentration of 99 mg/Kg. Laboratory analyses of groundwater samples detected TPHg at a maximum concentration of 49,000 ug/L and benzene at a maximum concentration of 190 ug/L. Methyl tertiary butyl ether (MTBE) was

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not detected at or above laboratory detection limits. Boring locations are shown on Plate 3.

January 20, 2000: ACC drilled six soil borings (SB1 through SB6) at 994 West Winton Avenue. Laboratory analyses of soil samples did not detect TPHg, BTEX, or MTBE at or above the laboratory detection limits. Laboratory analyses of groundwater samples detected TPHg at a maximum concentration of 46,000 ug/L and benzene at a maximum concentration of 210 ug/L. MTBE was not detected at or above laboratory detection limits. Boring locations are shown on Plate 3.

2000: At the request of the California Regional Water Quality Control Board, San Francisco Bay Region (Regional Board), ExxonMobil completed one additional groundwater sampling event.

March 2000: ExxonMobil received a letter from the City of Hayward Fire Department denying closure, stating that the case could not be separated from the UST investigation at 994 West Winton Avenue and requesting joint groundwater sampling.

April 20, 2000: ERI observed Environ Corporation (Environ) drill three on-site soil borings (SB1 through SB3) using direct-push methods. Groundwater samples were collected. Soil samples were not collected.

May 2000: ACC commenced case closure documentation with City of Hayward Fire Department for site at 994 West Winton Avenue.

October 2000: ERI performed a well survey incorporating the results of a municipal water supply well search and previous investigations. A City of Hayward emergency supply well is located approximately 1,000-feet west of the site along West Winton Avenue. An industrial water supply well that has reportedly been destroyed was also found. Well locations are shown on Plate 4.

February 12, 2001: ERI verbally notified Valero Refining Company (property owner) of the proposed case closure.

Currently there are five on-site groundwater monitoring wells (MW3A, MW3B, and MW3F through MW3H) and two observation wells (OB2 and OB3) as shown on Plate 2.

Laboratory analyses of groundwater samples collected from the wells indicate the presence of dissolved diesel fuel (as TPHd), dissolved gasoline hydrocarbons TPHg, BTEX, and MTBE. Cumulative groundwater monitoring and sampling data from November 24, 1998, to the present are summarized in

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Table 1. Cumulative soil and groundwater laboratory analytical data are presented in Tables 2 and 3, respectively. Boring logs are presented in Appendix C.

## 2.0 SITE CONDITIONS

### 2.1 Regional Setting

The site is located in the Hayward Fault Zone on sediments mapped as Quaternary alluvium. Approximately three miles to the east lies a northwest trending mountain range consisting of Pliocene volcanic rocks and Franciscan volcanic and metavolcanic rocks (CDMG, 1976).

### 2.2 Site Geology and Hydrogeology

Based on the results of previous investigations, ERI has identified one stratigraphic unit at the site. From the ground surface to approximately 40 feet below ground surface (bgs), the maximum depth explored, the site is characterized primarily by a clay with silt and fine sand. Free groundwater was generally encountered from approximately 20 to 23 feet bgs.

Groundwater persistently flows west with a hydraulic gradient ranging from 0.007 to 0.02. A Rose Diagram depicting groundwater flow directions is shown on Plate 5.

### 2.3 Soil Conditions

Laboratory analysis of soil samples collected during drilling of soil borings B-1 through B-3 and the installation of monitoring wells MW3D and MW3E in September 1988 detected TPHd, TPHg, and benzene at a maximum concentration of 110 mg/Kg, 190 mg/Kg, and 0.53 mg/Kg in boring B3, respectively.

Laboratory analysis of soil samples collected during drilling of soil borings B-4 through B-6 and the installation of wells MW3F and MW3G in January 1989 detected toluene at a maximum concentration

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of 0.2 mg/Kg. TPHd, TPHg, and BTEX were not detected at or above the laboratory detection limits as shown on Plate 6.

Laboratory analysis of soil samples collected during the drilling of soil boring B-7 in February 1990 detected TPHd at a maximum concentration of 100 mg/Kg and benzene at a maximum concentration of 0.23 mg/Kg.

Laboratory analysis of soil samples collected during the installation of air sparge wells (SP1 through SP3) detected TPHg at a maximum concentration of 6.2 mg/Kg and benzene at a maximum concentration of 0.030 mg/Kg in well SP2. The locations of the air sparge wells are shown in Appendix D.

Laboratory analysis of soil samples collected during the removal of product lines detected TPHd at a maximum concentration of 12 mg/Kg in sample S-3-D5. TRPH was detected at a maximum concentration of 170 mg/Kg in S-10-B3. TPHg and BTEX were not detected at or above the laboratory detection limits. The location of the product line replacement and soil sample collection is shown on Plate 7.

Laboratory analysis of a composite stockpile soil sample collected from stockpiled soil during removal of UST in January 1987 detected TPHd at a maximum concentration of 56 mg/Kg. TPHg and BTEX were not detected at or above the laboratory detection limits. Laboratory analysis of a soil sample collected 2 feet below the base of the UST pit detected TPHd at a maximum concentration of 2.8 mg/kg. TPHg and BTEX were not detected at or above the laboratory detection limits.

Laboratory analysis of soil samples collected during the installation of vapor wells VW1 through VW8 in February 1994 detected TPHg at a maximum concentration of 810 mg/Kg in boring VW3 and benzene at a maximum concentration of 86 mg/Kg in boring VW7. The locations of the vapor wells are shown in Appendix D.

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## 2.4 Groundwater Conditions

Groundwater monitoring data have been collected at the subject site since March 1993. MTBE has been detected in wells MW3A through MW3H. The maximum concentration of MTBE, at 190 ug/L, was detected in a sample collected from MW3B in February 1999. MTBE concentrations appear to be decreasing over time in well MW3B and wells MW3F through MW3H. The concentration of dissolved hydrocarbons and MTBE for samples collected in January 2000 are shown on Plate 3.

During January 2000 (the most recent monitoring), groundwater monitoring well MW3B, downgradient of the USTs, had the maximum concentration of dissolved hydrocarbons at the site. MTBE was present at a concentration of 96 ug/L, TPHg at a concentration of 4,600 ug/L and benzene at a concentration of 40 ug/L. Analytical results of groundwater samples collected during the most recent sampling event are shown on Plate 8. Showing concentration of TPHg, MTBE, and benzene, groundwater elevation versus time for each groundwater monitoring well are included as Graphs 1 through 7.

Laboratory analysis of the groundwater samples collected during the drilling of wells MW3A through MW3C in June 1988 detected benzene at a maximum concentration of 13,000 ug/L in well MW3A. Laboratory analysis of the groundwater sample collected from the boring is presented in Table 3.

Laboratory analysis of the groundwater samples collected during the drilling of wells MW3D and MW3E in September 1988 did not detect TPHd, TPHg, or BTEX, at or above the laboratory detection limits.

Laboratory analysis of groundwater samples collected during the advancement soil borings SB1 through SB3 in April 2000 using direct-push methods, detected TPHd at a maximum concentration of 1,800 ug/L and TPHg at a maximum concentration 2,300 ug/L in boring SB3, and benzene at a maximum concentration of 230 ug/L in boring SB2. The locations of the borings are shown on Plate 9.

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## 2.5 Sensitive Receptor Survey

In May 1988, Harding Lawson performed a sensitive receptor survey. The results of the survey are summarized in Appendix E. No private or public wells were discovered within 1,000 and 2,500 feet, respectively. In October 2000, ERI performed a well survey which revealed one active emergency supply well located 1,000 feet downgradient of the site. Based on recent quarterly groundwater monitoring and sampling data obtained from monitoring wells MW3F and MW3G, located downgradient of the site, it does not appear that the emergency supply well is likely to be impacted by petroleum hydrocarbons from the site.

## 3.0 SUMMARY

Based on the following criteria, it is ERI's opinion that soil and groundwater conditions at this site do not warrant additional assessment or monitoring, and that case closure for this site is warranted.

- It does not appear that there is an ongoing release.
- The MTBE plume is adequately delineated.
- MTBE concentrations in groundwater samples show a decreasing trend.
- It does not appear that the emergency supply well located downgradient is likely to be impacted by petroleum hydrocarbons from the site.

ERI recommends that a low-risk case closure be granted and that the four groundwater monitoring wells and two observation wells be properly destroyed.

## 4.0 LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for ExxonMobil Refining and Supply, and any reliance on this report by third parties shall be at such party's sole risk.

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## 5.0 REFERENCES

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TABLE I  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
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Well ID # (TOC)	Sampling Date	SUBJ	DTW <.....feet.....>	Elev.	TPHg <.....ppb.....>	MTBE	B	T	E	X
MW3A	06/21/88	---	---	---	---	---	13,000	9,400	7,300	31,000
	10/19/88	---	---	---	---	---	<0.5	<1	<2	2
	02/02/89	---	---	---	---	---	8	<1	9	11
	10/30/89	---	---	---	580	---	9	<1	14	15
(99.89)	03/25/93	NLPH	19	81	4,200	---	6	<0.5	33	<0.5
	06/29/93	NLPH	20	80	1,000	---	1	<0.5	<0.5	<0.5
	09/30/93	NLPH	21	79	1,300	---	<0.5	<0.5	2	<0.5
	12/02/93	NLPH	22	78	90	---	<0.5	<0.5	<0.5	<0.5
(47.12)	03/24/94	NLPH	20	80	1,500	---	1	<0.5	1	<0.5
	06/23/94	NLPH	20	79	770	---	<0.5	<0.5	<0.5	<0.5
	09/19/94	NLPH	21	26	<50	---	1	<0.5	<0.5	2
	12/28/94	NLPH	20	27	53	---	<0.5	<0.5	<0.5	1
	03/09/95	NLPH	18	29	---	---	---	---	---	---
	03/15/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/95	NLPH	18	30	<50	<10	<0.5	<0.5	<0.5	<0.5
	09/27/95	NLPH	19	28	<50	<10	<0.5	<0.5	<0.5	<0.5
	11/14/95	NLPH	20	28	<50	<10	<0.5	<0.5	<0.5	<0.5
	03/28/96	NLPH	15	32	<50	---	<0.5	<0.5	<0.5	<0.5
47.12	06/19/96	NLPH	16	31	<50	---	<0.5	<0.5	<0.5	<0.5
	03/12/97	NLPH	17	30	<50	<30	<0.5	<0.5	<0.5	<0.5
48.37	04/08/98	NLPH	12	35	<50	<2.5	2	2	1	2
	02/25/99	NLPH	15	34	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	01/12/00	NLPH	19	30	300	29	<0.5	3	7	52
MW3B	06/21/88	---	---	---	---	---	3,600	3,000	380	2,300
	10/19/88	---	---	---	---	---	11,000	3,500	3,000	5,600
	02/02/89	---	---	---	---	---	9,000	2,400	1,800	8,400
	10/30/89	---	---	---	140,000	---	8,100	1,800	2,700	19,000
(99.05)	03/25/93	Sheen	19	80	---	---	---	---	---	---
	06/29/93	Sheen	19	80	---	---	---	---	---	---
	09/30/93	Sheen	20	79	---	---	---	---	---	---
	12/02/93	Not Accessible	---	---	---	---	---	---	---	---
(46.45)	03/24/94	Sheen	19	80	150,000	---	11,000	1,500	7,800	20,000
	06/23/94	NLPH	20	79	50,000	---	3,300	66	3,500	5,000
	09/19/94	Sheen	21	25	28,000	---	3,900	330	2,400	4,800
	12/28/94	Sheen	20	27	22,000	---	960	190	980	4,700
	03/09/95	Sheen	18	29	---	---	---	---	---	---
	03/15/95	---	---	---	36,000	---	16,000	33,000	4,200	28,000
	06/22/95	Sheen	17	29	9,900	<50	120	<3	6	420
	09/27/95	Sheen	19	28	17,000	<200	450	20	990	1,900

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

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Well ID # (TOC)	Sampling Date	SUBJ	DTW < ..... fect..... >	Elev. >	TPHg <	MTBE	B	T	E	X
MW3B(cont.)	11/14/95	Sheen	19	27	18,000	<200	640	39	1,400	2,800
46.45	03/28/96	Not Monitored								
	04/08/98	NLPH	12	35	1,700	110	40	<10	55	38
47.68	02/25/99	NLPH	14	33	3,900	190	49	<2.5	120	120
	01/12/00	NLPH	18	29	4,600	96	40	5	85	82
MW3C	06/21/88	---	---	---	---	---	<0.5	<2	<1	26
	10/19/88	---	---	---	---	---	2,700	49	<2	2,200
	02/02/89	---	---	---	---	---	2,100	65	660	1,400
	10/30/89	---	---	---	35,000	---	2,800	59	1,100	2,300
(99.47)	03/25/93	Sheen	20	80	---	---	---	---	---	---
	06/29/93	Sheen	19	80	---	---	---	---	---	---
	09/30/93	Sheen	20	79	---	---	---	---	---	---
	12/02/93	Sheen	21	79	---	---	---	---	---	---
	03/24/94	Sheen	20	80	150,000	---	6,500	62	9,200	39,000
	06/23/94	NLPH	20	79	51,000	---	2,700	83	3,100	4,300
	09/19/94	Sheen	21	25	21,000	---	2,300	68	2,200	3,300
(46.58)	12/28/94	NLPH	20	25	5,600	---	190	9	120	620
	03/09/95	NLPH	18	29	---	---	---	---	---	---
	03/15/95	---	---	---	18,000	---	150	37	21	150
	06/22/95	NLPH	17	29	510	<50	<3	5	<3	7
	09/27/95	NLPH	19	28	4,300	17	11	9	91	7
	11/14/95	NLPH	19	27	3,500	<50	15	3	120	10
	03/28/96	Well Destroyed								
MW3D	10/13/88	---	---	---	---	---	<0.5	<1	<2	<1
	02/02/89	---	---	---	---	---	<0.5	<1	<2	<1
	10/30/89	---	---	---	<50	---	<0.5	<1	<2	<1
(99.33)	03/25/93	NLPH	18.68	80.64	<50	---	<0.5	<0.5	<0.5	<0.5
	06/29/93	NLPH	19.13	80.17	<50	---	<0.5	<0.5	<0.5	<0.5
	09/30/93	NLPH	20.32	79.00	<50	---	<0.5	<0.5	<0.5	<0.5
	12/02/93	NLPH	20.88	78.44	<50	---	<0.5	<0.5	<0.5	<0.5
	03/24/94	NLPH	19.56	79.76	<50	---	<0.5	<0.5	<0.5	<0.5
	06/23/94	NLPH	20.07	79.25	<50	---	<0.5	<0.5	<0.5	<0.5
(46.83)	09/19/94	NLPH	21.04	25.79	<50	---	<0.5	<0.5	<0.5	<0.5
	12/28/94	NLPH	20.02	26.81	<50	---	<0.5	0.7	<0.5	1.1
	03/09/95	NLPH	17.69	29.14	---	---	---	---	---	---
	03/15/95	---	---	---	<50	---	<0.5	0.71	<0.5	0.64

**TABLE I**  
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Well ID # (TOC)	Sampling Date	SUBJ	DTW < .....feet..... >	Elev. < .....feet..... >	TPHg < .....ppb..... >	MTBE	B	T	E	X
MW3D(cont.) (46.83)	06/22/95	NLPH	17.17	29.66	<50	<10	<0.5	<0.5	<0.5	<0.5
	09/27/95	NLPH	18.53	28.30	<50	<10	<0.5	<0.5	<0.5	<0.5
	11/14/95	NLPH	19.15	27.68	<50	<10	<0.5	<0.5	<0.5	<0.5
	03/28/96	Well Destroyed	---	---	---	---	---	---	---	---
MW3E (99.80)	10/19/88	---	---	---	---	---	<0.5	<1	<2	<1
	02/02/89	---	---	---	---	---	<0.5	<1	<2	<1
	10/30/89	---	---	---	<50	---	<0.5	<1	<2	<1
	03/25/93	NLPH	19.28	80.52	<50	---	<0.5	<0.5	<0.5	<0.5
(47.28)	06/29/93	Well Inaccessible	---	---	---	---	---	---	---	---
	09/30/93	Well Inaccessible	---	---	---	---	---	---	---	---
	12/02/93	NLPH	21.49	78.31	<50	---	<0.5	<0.5	<0.5	<0.5
	03/24/94	NLPH	20.16	79.64	<50	---	<0.5	<0.5	<0.5	<0.5
	06/23/94	Well Inaccessible	---	---	---	---	---	---	---	---
	09/19/94	NLPH	21.68	25.60	<50	---	<0.5	<0.5	<0.5	<0.5
	12/28/94	NLPH	20.62	26.66	<50	---	<0.5	<0.5	<0.5	<0.5
	03/09/95	NLPH	18.26	29.02	---	---	---	---	---	---
	03/15/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/95	NLPH	17.06	30.22	<50	<10	<0.5	<0.5	<0.5	<0.5
	09/27/95	NLPH	19.05	28.23	<50	<10	<0.5	<0.5	<0.5	<0.5
	11/14/95	NLPH	19.76	27.52	<50	<10	<0.5	<0.5	<0.5	<0.5
03/28/96	Well Destroyed	---	---	---	---	---	---	---	---	
MW3F (99.07)	02/02/89	---	---	---	---	---	<0.5	4	3	3
	10/30/89	---	---	---	<50	---	<0.5	<1	<2	<1
(46.56)	03/25/93	NLPH	18.98	80.09	1,900	---	40	<0.5	1.4	1.5
	06/29/93	NLPH	19.67	79.40	240	---	6.1	<0.5	<0.5	1.2
	09/30/93	NLPH	20.83	78.24	740	---	5	<0.5	<0.5	<0.5
	12/02/93	NLPH	21.33	77.74	620	---	38	<0.5	1	<0.5
	03/24/94	NLPH	20.00	79.07	1,000	---	69	<0.5	2.5	15
	06/23/94	NLPH	20.54	78.53	640	---	3.8	<0.5	<0.5	<0.5
	09/19/94	NLPH	21.50	25.06	840	---	2.2	2.4	0.79	0.63
	12/28/94	NLPH	20.50	26.06	1,600	---	10	<0.5	0.82	0.71
	03/09/95	NLPH	18.22	28.34	---	---	---	---	---	---
	03/15/95	---	---	---	740	---	<0.5	<0.5	<0.5	<0.5
	06/22/95	NLPH	17.80	28.76	1,100	10	<0.5	1.1	<0.5	1.2
09/27/95	NLPH	19.10	27.46	520	<10	<0.5	<0.5	<0.5	<0.5	

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Former Exxon Service Station 7-0218  
23990 Hesperian Boulevard  
Hayward, California  
(Page 4 of 5)

Well ID # (TOC)	Sampling Date	SUBJ	DTW < .....feet..... >	Elev.	TPHg	MTBE	B	T	E	X	
											ppb
MW3F(cont.) (46.56)	11/14/95	NLPH	19.72	26.84	700	<10	<0.5	<0.5	<0.5	1.2	
	03/28/96	NLPH	15.53	31.03	860	---	7.1	<0.5	<0.5	<0.5	
	06/19/96	NLPH	16.66	29.90	490	---	<0.5	<0.5	<0.5	<0.5	
	03/12/97	NLPH	16.31	30.25	580	<30	<0.5	<0.5	<0.5	<0.5	
(47.85)	04/08/98	NLPH	13.96	32.60	170	<2.5	0.75	<0.5	<0.5	0.70	
	02/25/99	Well Inaccessible	---	---	---	---	---	---	---	---	
	01/12/00	NLPH	19.15	29.02	<50	<2	<0.5	<0.5	<0.5	<0.5	
MW3G	02/02/89	---	---	---	---	---	<0.5	<1	<2	>1	
	10/30/89	---	---	---	<50	---	<0.5	<1	<2	>1	
(99.68)	03/25/93	NLPH	19.57	80.11	130	---	6	<0.5	<0.5	<0.5	
	06/29/93	NLPH	20.28	79.4	120	---	<0.5	<0.5	<0.5	<0.5	
	09/30/93	NLPH	21.42	78.26	250	---	<0.5	<0.5	<0.5	<0.5	
	12/02/93	NLPH	21.92	77.76	280	---	14	<0.5	<0.5	<0.5	
	03/24/94	NLPH	20.60	79.08	240	---	14	<0.5	<0.5	<0.5	
	06/23/94	NLPH	21.13	78.55	<50	---	<0.5	<0.5	<0.5	<0.5	
	(47.14)	09/19/94	NLPH	22.1	25.04	100	---	<0.5	<0.5	<0.5	<0.5
		12/28/94	NLPH	20.98	20.16	78	---	<0.5	<0.5	<0.5	<0.5
		03/09/95	NLPH	18.78	28.36	---	---	---	---	---	---
		03/15/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5
		06/22/95	NLPH	18.52	28.62	<50	<10	<0.5	<0.5	<0.5	<0.5
(47.14)	09/27/95	NLPH	19.68	27.46	<50	<10	<0.5	<0.5	<0.5	<0.5	
	11/14/95	NLPH	20.29	26.85	<50	<10	<0.5	<0.5	<0.5	<0.5	
	03/28/96	NLPH	16.07	31.07	54	---	<0.5	<0.5	<0.5	<0.5	
	06/19/96	NLPH	17.22	29.92	<50	---	<0.5	<0.5	<0.5	<0.5	
	03/12/97	NLPH	16.43	30.71	<50	<30	<0.5	<0.5	<0.5	<0.5	
	04/08/98	NLPH	13.27	33.87	<50	<2.5	<0.5	<0.5	<0.5	<0.5	
	(48.17)	02/25/99	Well Inaccessible	---	---	---	---	---	---	---	---
01/12/00		NLPH	19.15	29.02	<50	<2	<0.5	<0.5	<0.5	<0.5	
MW3H (99.03)	03/25/93	NLPH	18.77	80.26	500	---	15	<0.5	0.7	2.3	
	06/29/93	NLPH	19.30	79.73	110	---	<0.5	<0.5	<0.5	<0.5	
	09/30/93	NLPH	20.48	78.55	430	---	<0.5	<0.5	<0.5	<0.5	
	(99.03)	12/02/93	NLPH	21.03	78.00	260	---	31	<0.5	<0.5	<0.5
		03/24/94	NLPH	19.68	79.35	190	---	28	<0.5	<0.5	<0.5
	06/23/94	NLPH	20.21	78.82	<50	---	<0.5	<0.5	<0.5	<0.5	

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Former Exxon Service Station 7-0218  
23990 Hesperian Boulevard  
Hayward, California  
(Page 5 of 5)

Well ID # (TOC)	Sampling Date	SUBJ	DTW <.....feet.....>	Elev. <.....feet.....>	TPHg <.....ppb.....>	MTBE <.....ppb.....>	B <.....ppb.....>	T <.....ppb.....>	E <.....ppb.....>	X <.....ppb.....>
MW3H(cont.) (46.54)	09/19/94	NLPH	21.20	25.34	100	---	<0.5	<0.5	<0.5	<0.5
	12/28/94	NLPH	20.16	26.38	<50	---	<0.5	<0.5	<0.5	<0.5
	03/09/95	NLPH	17.88	28.66	---	---	---	---	---	---
	03/15/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/95	NLPH	20.25	26.29	<50	<10	<0.5	<0.5	<0.5	<0.5
	09/27/95	Well Inaccessible	---	---	---	---	---	---	---	---
	11/14/95	NLPH	19.31	27.23	<50	<10	<0.5	<0.5	<0.5	<0.5
(46.54)	03/28/96	NLPH	15.05	31.49	69	---	<0.5	<0.5	<0.5	<0.5
	06/19/96	NLPH	16.18	30.36	<50	---	<0.5	<0.5	<0.5	<0.5
	03/12/97	NLPH	15.66	30.88	<50	<30	<0.5	<0.5	<0.5	<0.5
(47.81)	04/08/98	NLPH	12.46	34.08	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	02/25/99	Well Inaccessible	---	---	---	---	---	---	---	---
	01/12/00	NLPH	18.39	29.42	<50	<2	<0.5	<0.5	<0.5	<0.5

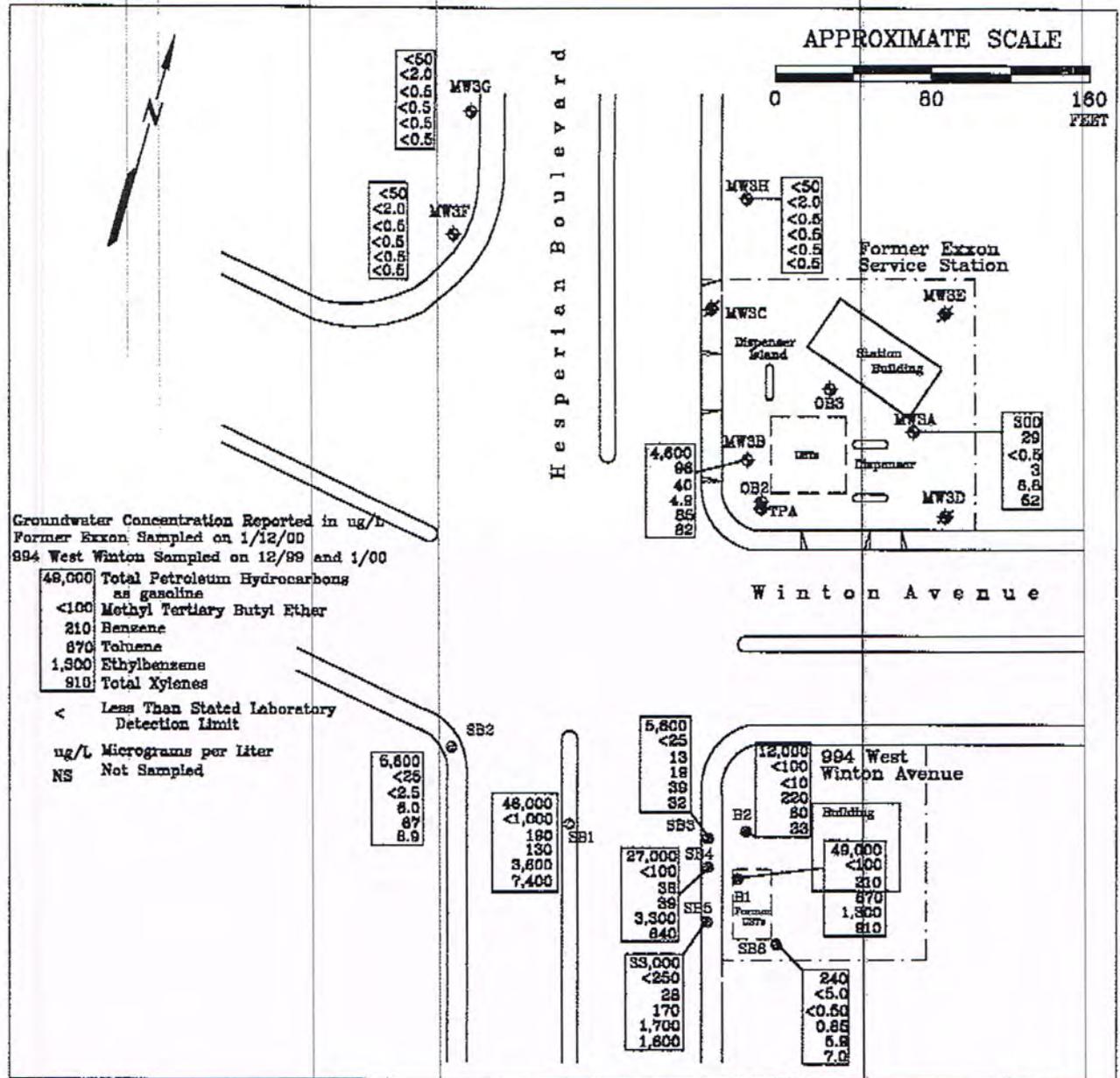
Notes:

- SUBJ = Results of subjective evaluation.
- NLPH = No liquid-phase hydrocarbons present in well
- TOC = Elevation of top of well casing; relative to mean sea level
- DTW = Depth to water.
- Elev. = Elevation of groundwater surface; relative to mean sea level.
- TPHg = Total petroleum hydrocarbons as gasoline analyzed using EPA method 5030/602 (modified).
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA method 8021B.
- MTBE = Methyl tertiary butyl ether analyzed using EPA method 8021B.
- = Not sampled / not analyzed.
- < = Less than the stated laboratory method detection limit.

Groundwater monitoring and sampling data from 1993 to 1997 provided by Harding Lawson Associates and Blaine Tech Services, Inc.

**TABLE 2**  
**CUMULATIVE SOIL SAMPLE ANALYSIS RESULTS**  
 Former Exxon Service Station 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California  
 (Page 1 of 3)

Sample #	Depth (ft bgs)	Date	TPHd <	TPHg	MTBE	B	T mg/Kg	E	X	Total Lead	HVOCs >
<b>Monitoring Wells Harding Lawson Associates</b>											
MW-3D	15.5-16.0	09/29/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3D	20.5-21.0	09/29/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3E	15.5-16.0	09/29/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3E	20.5-21.0	09/29/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3E	25.5-26.0	09/29/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3F	16.0	01/19/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3G	16.0	01/19/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3H	5.5	01/19/89	<10	<10	---	<0.05	0.06	<0.2	<0.1	---	---
MW-3H	15.5	01/19/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
MW-3H	20.5	01/19/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
<b>Soil Borings Harding Lawson Associates</b>											
B1	5.5-6.0	09/28/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B1	10.0-10.5	09/28/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B1	15.0-15.5	09/28/88	<10	34	---	<0.05	<0.1	<0.2	0.3	---	---
B1	20.0-20.5	09/28/88	<10	110	---	0.53	1.3	1.8	4.7	---	---
B2	5.0-5.5	09/28/88	<10	110	---	<0.05	<0.1	<0.2	<0.1	---	---
B2	10.0-10.5	09/28/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B2	15.0-15.5	09/28/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B2	20.0-20.5	09/28/88	<10	39	---	0.10	<0.1	<0.2	0.4	---	---
B3	5.0-5.5	09/28/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B3	10.0-10.5	09/28/88	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B3	15.0-15.5	09/28/88	<10	140	---	0.06	<0.1	<0.2	0.3	---	---
B3	20.0-20.5	09/28/88	110	190	---	0.53	0.6	2.1	9.5	---	---
B-4A	5.0	01/20/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B-4B	9.5	01/20/89	<10	<10	---	<0.05	0.1	<0.2	<0.1	---	---
B-5A	4.6	01/20/89	<10	<10	---	<0.05	0.2	<0.2	<0.1	---	---
B-5B	9.2	01/20/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B-6A	4.8	01/20/89	<10	<10	---	<0.05	0.2	<0.2	<0.1	---	---
B-6B	9.5	01/20/89	<10	<10	---	<0.05	<0.1	<0.2	<0.1	---	---
B-7	19.0	02/26/90	---	100	---	0.23	<0.1	0.89	0.90	---	---
B-7	22.0	02/26/90	---	94	---	0.12	0.09	0.40	0.40	---	---
<b>Soil Borings Krazan &amp; Associates, Inc.</b>											
B1-20	20	10/28/94	<1.0	<1.0	---	<0.0050	<0.0050	<0.0050	0.010	---	---
B2-20	20	10/28/94	<1.0	<1.0	---	<0.0050	<0.0050	<0.0050	0.010	---	---
B3-20	20	10/28/94	<1.0	<1.0	---	<0.0050	<0.0050	<0.0050	0.010	---	---
HAI-5	5	10/28/94	1.9	<1.0	---	<0.0050	<0.0050	<0.0050	0.010	---	---
<b>Vapor-Extraction Wells Terra Vac Corporation</b>											
VW-1	20	01/27/94	---	15	---	0.28	0.0088	1.0	1.3	---	---
VW-1	25	01/27/94	---	7.8	---	0.14	<0.005	0.21	0.27	---	---
VW-1	25.5	01/27/94	---	<1.0	---	0.016	0.013	0.014	0.027	---	---
VW-1	30	01/27/94	---	<1.0	---	<0.005	<0.005	<0.005	0.017	---	---
VW-2	20	01/25/94	---	160	---	0.52	0.024	3.3	9.1	---	---
VW-2	25	01/25/94	---	14	---	0.16	0.029	0.65	1.5	---	---
VW-2	30	01/25/94	---	7.4	---	0.064	0.016	0.43	1.4	---	---
VW-3	18.5	01/27/94	---	810	---	2.3	0.23	16	44	---	---
VW-3	23.5	01/27/94	---	200	---	0.73	0.17	3.7	8.5	---	---
VW-3	28.5	01/27/94	---	11	---	0.061	0.013	0.55	1.3	---	---
VW-3	30	01/27/94	---	8.2	---	0.070	0.020	0.48	1.2	---	---
VW-4	15	01/27/94	---	9.0	---	0.16	0.022	0.42	0.26	---	---
VW-4	20	01/27/94	---	83	---	0.59	0.082	2.5	4.54	---	---



2154008a

**EXPLANATION**

- MW3H Groundwater Monitoring Well
- SB1 Soil Boring
- OB2 Observation Well
- MW3E Destroyed Groundwater Monitoring Well

SOURCE:  
Modified from a map  
provided by  
Geoconsultants, Inc.



**OFF-SITE SOIL BORING LOCATION MAP**

FORMER EXXON SERVICE STATION 7-0218  
23990 Hesperian Boulevard  
Hayward, California

PROJECT NO.

2154

PLATE

3

October 18, 2000

**TABLE 2**  
**CUMULATIVE SOIL SAMPLE ANALYSIS RESULTS**  
 Former Exxon Service Station 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California  
 (Page 2 of 3)

Sample #	Depth (ft bgs)	Date	TPHd	TPHg	MTBE	B	T	E	X	Total Lead	HVOCs	mg/Kg	
												<	>
VW-4	25	01/27/94	---	6.7	---	0.19	0.013	0.21	0.24	---	---	---	---
VW-5	17.5	01/25/94	---	57	---	0.080	0.013	0.53	1.2	---	---	---	---
VW-5	19	01/25/94	---	56	---	0.23	0.023	1.24	2.4	---	---	---	---
VW-5	26.5	01/25/94	---	43	---	0.18	0.14	0.46	0.71	---	---	---	---
VW-6	15	01/25/94	---	<1.0	---	<0.005	0.013	<0.005	<0.005	---	---	---	---
VW-6	20	01/25/94	---	2.4	---	0.089	0.018	0.079	0.19	---	---	---	---
VW-6	25	01/25/94	---	2.8	---	0.0054	0.0057	<0.005	0.042	---	---	---	---
VW-7	20	01/26/94	---	600	---	86	0.23	16	36	---	---	---	---
VW-7	25	01/26/94	---	6.3	---	0.34	0.0082	0.36	0.48	---	---	---	---
VW-7	30.5	01/26/94	---	2.1	---	0.058	0.012	0.086	0.13	---	---	---	---
VW-8	20	01/26/94	---	110	---	0.610	0.19	2.6	3.6	---	---	---	---
VW-8	25	01/26/94	---	12	---	0.085	0.025	0.17	0.10	---	---	---	---
VW-8	15	01/26/94	---	14	---	0.078	0.029	0.25	0.56	---	---	---	---
<b>Air Sparge Wells Terra Vac Corporation</b>													
SP-1	5.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-1	10.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-1	15.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-1	20.5	06/19/95	---	<1	---	<0.03	<0.03	<0.03	<0.03	---	---	---	---
SP-1	25.5	06/19/95	---	<1	---	<0.005	<0.005	0.026	0.0098	---	---	---	---
SP-1	30.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-1	35.5	06/19/95	---	<1	---	<0.005	<0.005	0.0059	0.0068	---	---	---	---
SP-1	39.0	06/19/95	---	<1	---	<0.005	<0.005	0.011	0.013	---	---	---	---
SP-2	5.8	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-2	10.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-2	15.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-2	20.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-2	25.8	06/19/95	---	6.2	---	0.030	<0.03	0.16	0.32	---	---	---	---
SP-2	30.5	06/19/95	---	1.9	---	<0.005	<0.005	0.034	<0.005	---	---	---	---
SP-2	35.5	06/19/95	---	1.8	---	0.012	<0.005	0.062	0.16	---	---	---	---
SP-2	39.0	06/19/95	---	<1	---	<0.005	<0.005	0.0071	0.019	---	---	---	---
SP-3	5.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-3	10.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-3	15.5	06/19/95	---	<1	---	<0.005	<0.005	<0.005	<0.005	---	---	---	---
SP-3	20.5	06/19/95	---	1.53	---	0.0093	<0.005	<0.005	0.021	---	---	---	---
<b>Product Lines Environmental Resolutions, Inc.</b>													
S-3-D1	3.0	08/23/96	5.8	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
S-3-D2	3.0	08/23/96	1.4	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
S-3-D3	3.0	08/23/96	4.0	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
S-3-D4	3.0	08/23/96	2.1	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
S-3-D5	3.0	08/23/96	12	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
S-3-D6	3.0	08/23/96	6.0	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
SP-1-(1-4)	---	09/09/96	56	<1.0	---	<0.0050	<0.0050	<0.0050	0.0050	20	---	---	ND
<b>Used-Oil UST Extraction Environmental Resolutions, Inc.</b>													
S-10-T1	10.0	01/14/97	2.1	<1.0	---	<0.0050	<0.0050	<0.0050	0.0050	11	---	---	---
SP-1-(1-4)	---	01/14/97	2.8	<1.0	---	<0.0050	<0.0050	<0.0050	0.0050	<10	---	---	---
<b>Soil Borings ACC Environmental Consultants</b>													
B1-5.0	5.0	12/22/99	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---
B1-10.0	10.0	12/22/99	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---
B1-15.0	15.0	12/22/99	---	1.1	<0.005	<0.005	<0.005	0.02	0.022	---	---	---	---

**TABLE 2**  
**CUMULATIVE SOIL SAMPLE ANALYSIS RESULTS**  
 Former Exxon Service Station 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California  
 (Page 3 of 3)

Sample #	Depth (ft bgs)	Date	TPHd	TPHg	MTBE	B	T	E	X	Total Lead	HVOCs
B1-20.0	20.0	12/22/99	---	99.00	<0.005	<0.005	<0.005	<0.005	0.92	---	---
B2-5.0	5.0	12/22/99	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	---	---
B2-15.0	15.0	12/22/99	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	---	---
B2-20.0	20.0	12/22/99	---	6.40	<0.005	<0.005	<0.005	<0.005	<0.005	---	---
SB6-12	12	01/20/00	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	---	---

## Notes:

B1	=	Soil sample collected from soil boring B1.
B1-20	=	Soil sample collected from soil boring collected by Krazean & Associates, Inc.
MW-3D	=	Soil sample collected from soil boring MW-3D.
SP-1	=	Soil sample collected from soil boring collected by Terra Vac Corporation.
VW-1	=	Soil sample collected from soil boring VW-1.
S-3-D1	=	Soil sample-depth in feet below ground surface-boring number.
S-10-T1	=	Soil sample-depth in feet below ground surface-location number.
SP-1-(1-4)	=	Stockpile soil sample-depth in feet below ground surface.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using modified EPA Method 8015.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using modified EPA Method 8015.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8020
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
TRPH	=	Total recoverable petroleum hydrocarbons analyzed using EPA Method 5520 E&F.
Total Lead	=	Analyzed using EPA Method 6010.
HVOCs	=	Halogenated volatile organic compounds analyzed using EPA Method 8010.
a	=	Information unknown.
---	=	Not applicable / not analyzed.
ND	=	Not detected. All analyte concentrations below laboratory reporting limit.
<	=	Less than the detection level indicated.

**TABLE 3**  
**ANALYTICAL LABORATORY RESULTS OF GROUNDWATER SAMPLES FROM SOIL BORINGS**  
 Former Exxon Service Station 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California  
 (Page 1 of 1)

Sample ID	Sample Date	Sample Depth (feet bgs)	TPH <sub>d</sub>	TPH <sub>g</sub>	MTBE	B	T	E	X
			<----- ug/L ----->						
<b>Soil Borings Krazan &amp; Associates, Inc.</b>									
B1-W	10/28/94	--	85	< 1.0	--	< 0.50	< 0.50	< 0.50	< 1.0
B2-W	10/28/94	--	78	67	--	< 0.50	< 0.50	< 0.50	< 1.0
B3-W	10/28/94	--	83,000	28,000	--	380	< 0.50	1,400	860
<b>Soil Borings ACC Environmental Consultants</b>									
B1-W	12/22/99	--	--	49,000	< 100	210	670	1,300	910
B2-W	12/22/99	--	--	12,000	< 100	< 10	220	60	33
SB1-W	01/20/00	--	--	46,000	< 1,000	190	130	3,600	7,400
SB2-W	01/20/00	--	--	5,600	< 25	< 2.5	6	67	8.9
SB3-W	01/20/00	--	--	5,600	< 25	13	19	39	32
SB4-W	01/20/00	--	--	27,000	< 100	38	39	3,300	640
SB5-W	01/20/00	--	--	33,000	< 250	28	170	1,700	1,600
SB6-W	01/20/00	--	--	240	< 5.0	< 0.50	0.85	5.9	7.0
W-40-7-0218SB1	04/20/00	40	a	52	< 0.5	< 2	< 0.5	< 0.5	< 0.5
W-40-7-0218SB2	04/20/00	40	260	770	1.3	230/18b	5.4	< 0.5	3.9
W-40-7-0218SB3	04/20/00	40	1,800	2,300	76	37/180b	8.4	< 0.5	210

**Notes:**

ug/L	=	Micrograms per liter.
MW-3A	=	Water sample collected from soil boring collected by LFR LEVINE-FRICKE.
B1-W	=	Water sample collected by Krazan & Associates, Inc. from soil boring 1.
W-40-7-0218SB1	=	Water sample collected at 40 feet below ground surface at Exxon Site 7-0218 from soil boring 1.
TEHP	=	Water sample collected from soil boring collected by LFR LEVINE-FRICKE.
TPH <sub>d</sub>	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015.
TPH <sub>g</sub>	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
--	=	Not analyzed.
< 0.5	=	Not detected at or above the stated laboratory method detection limit.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260.
a	=	Sample containers were broken when received by laboratory.
b	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
< .50	=	Not detected at or above the stated laboratory method detection limit.
feet bgs	=	Feet below ground surface.

**TABLE 4**  
**Well Survey Data**  
 Former Exxon Service Station 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California

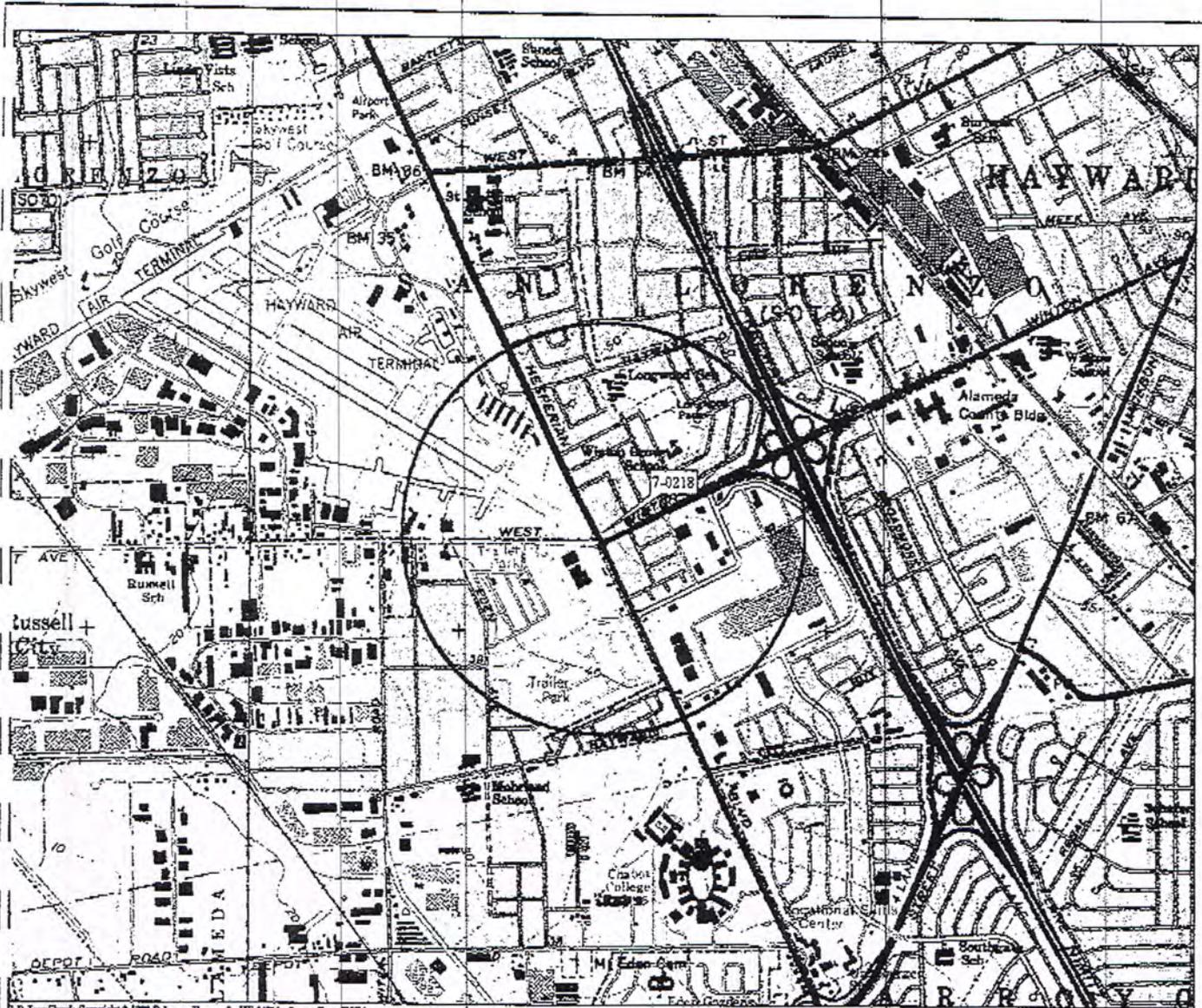
Map ID	Well ID	Status	Location	Well Type	Use	Distance from Site (ft)
A	3S/2W20L	Active	West of site along West Winton Avenue	Emergency Supply	Municipal	1,000
B	3S/2W20L	Destroyed	North of site along Hesperian Boulevard	Water Producing	Industrial	

Notes:

Map ID = Map designation as shown on Plate 5.

Well ID = Well designation as provided by the Alameda County Department of Public Works.

Well information provided by the Alameda County Department of Public Works.

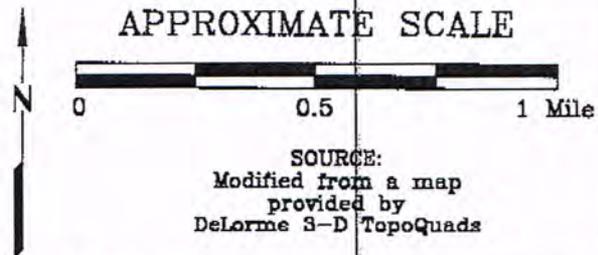


5-D TopoQuads Copyright © 1999 DeLorme Topographic, ME 04864 Source Data: USGS 1:50,000 Scale: 1:19,268 Detail: 1:4 Datum: WGS84

**EXPLANATION**

 1/2-mile radius circle

**APPROXIMATE SCALE**



**SITE VICINITY MAP**

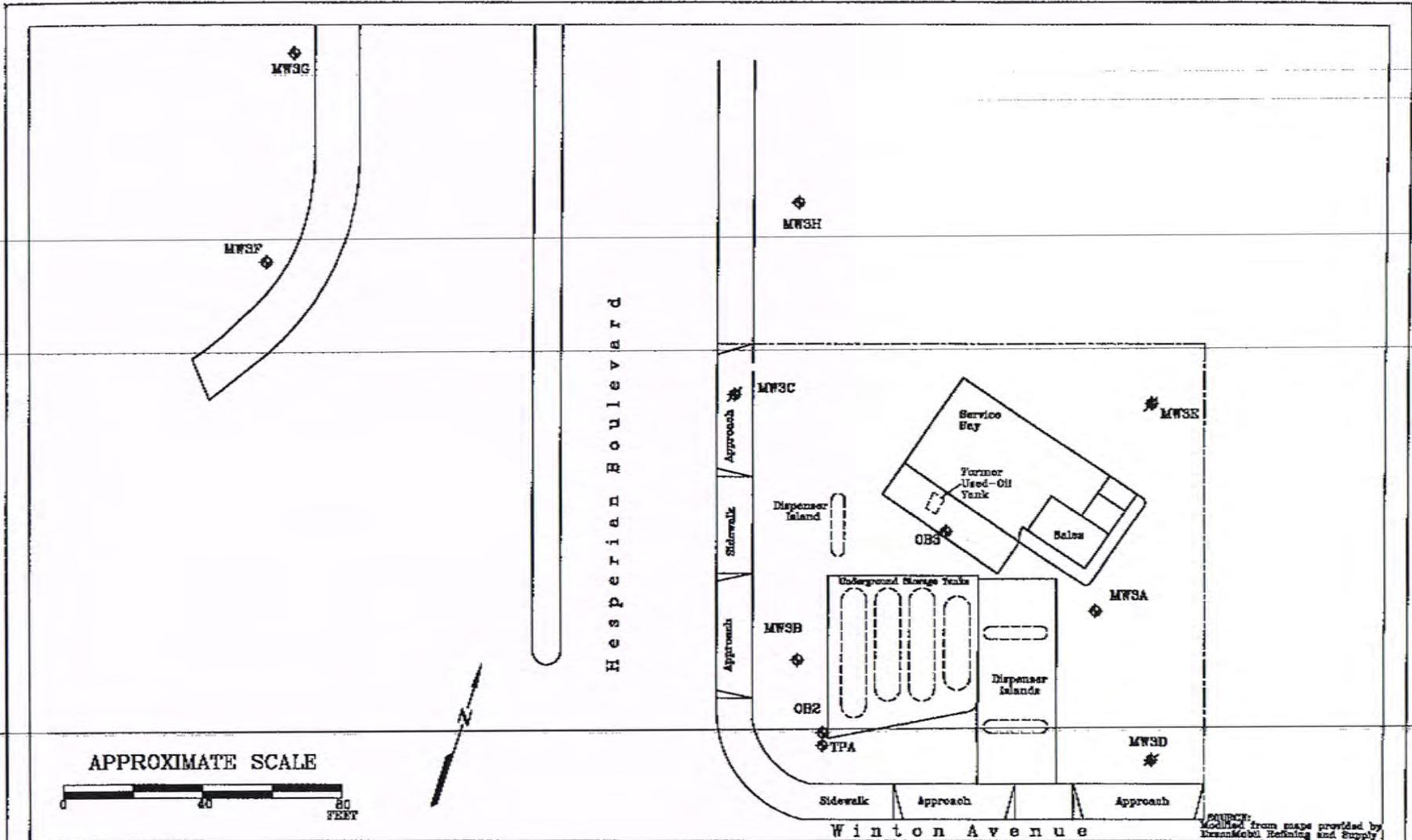
FORMER EXXON SERVICE STATION 7-0218  
23990 Hesperian Boulevard  
Hayward, California

**PROJECT NO.**

2154

**PLATE**

1



SOURCE: Modified from maps provided by ExxonMobil Refining and Supply

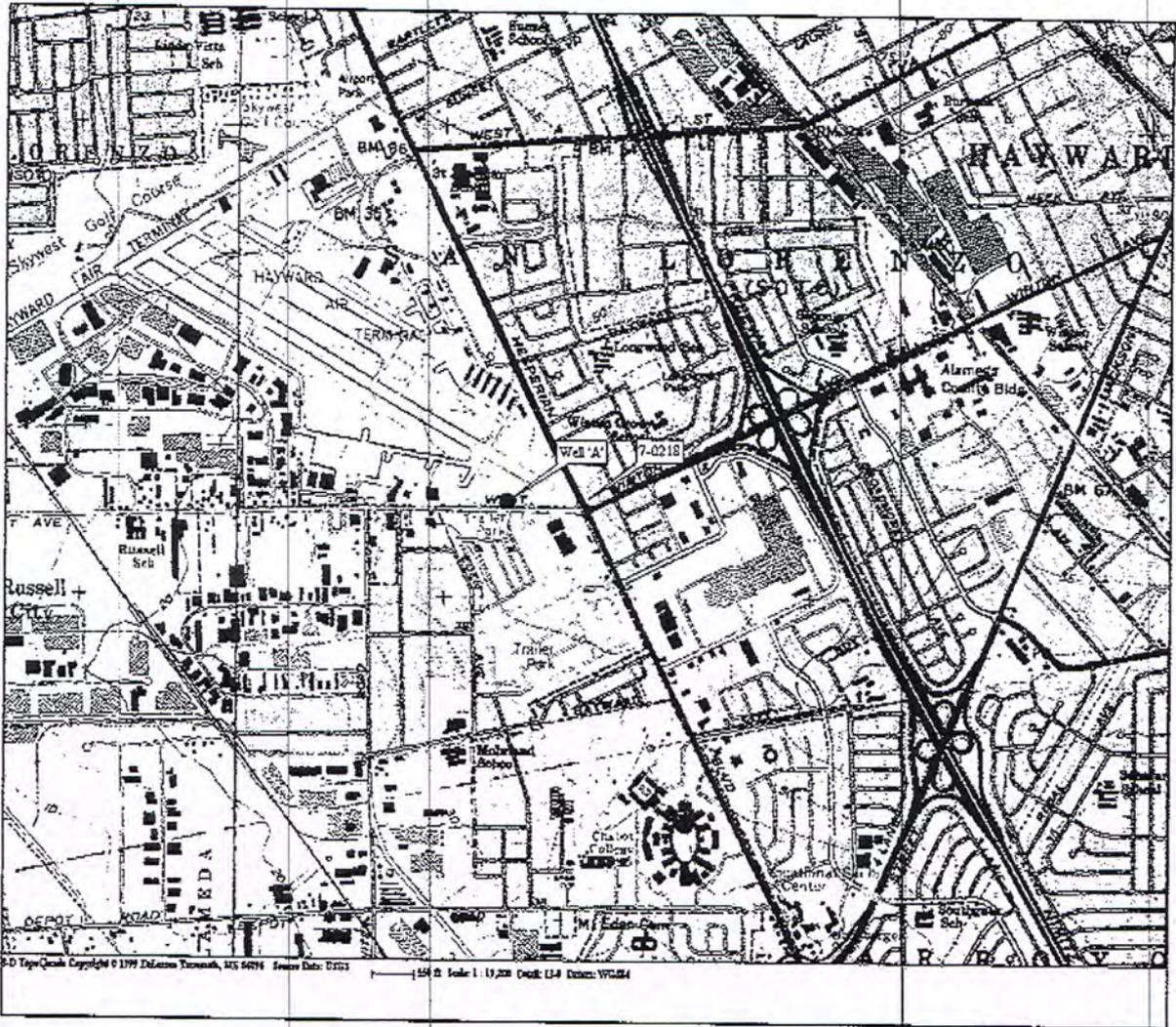
FN E1840002



**GENERALIZED SITE PLAN**  
 FORMER  
 EXXON SERVICE STATION 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California

EXPLANATION	
MW3H	Groundwater Monitoring Well
OB2	Observation Well
MWSE	Well Destroyed

<b>PROJECT NO.</b>	2154
<b>PLATE</b>	2



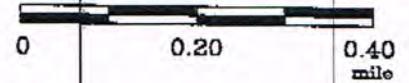
FN 2154WELL

**EXPLANATION**

- Well 'A' City of Hayward Municipal Well
- 7-0218 Former Exxon Service Station



**APPROXIMATE SCALE**



SOURCE:  
 Modified from a map  
 provided by  
 DeLorme 3-D TopoQuads



**WELL SURVEY MAP**

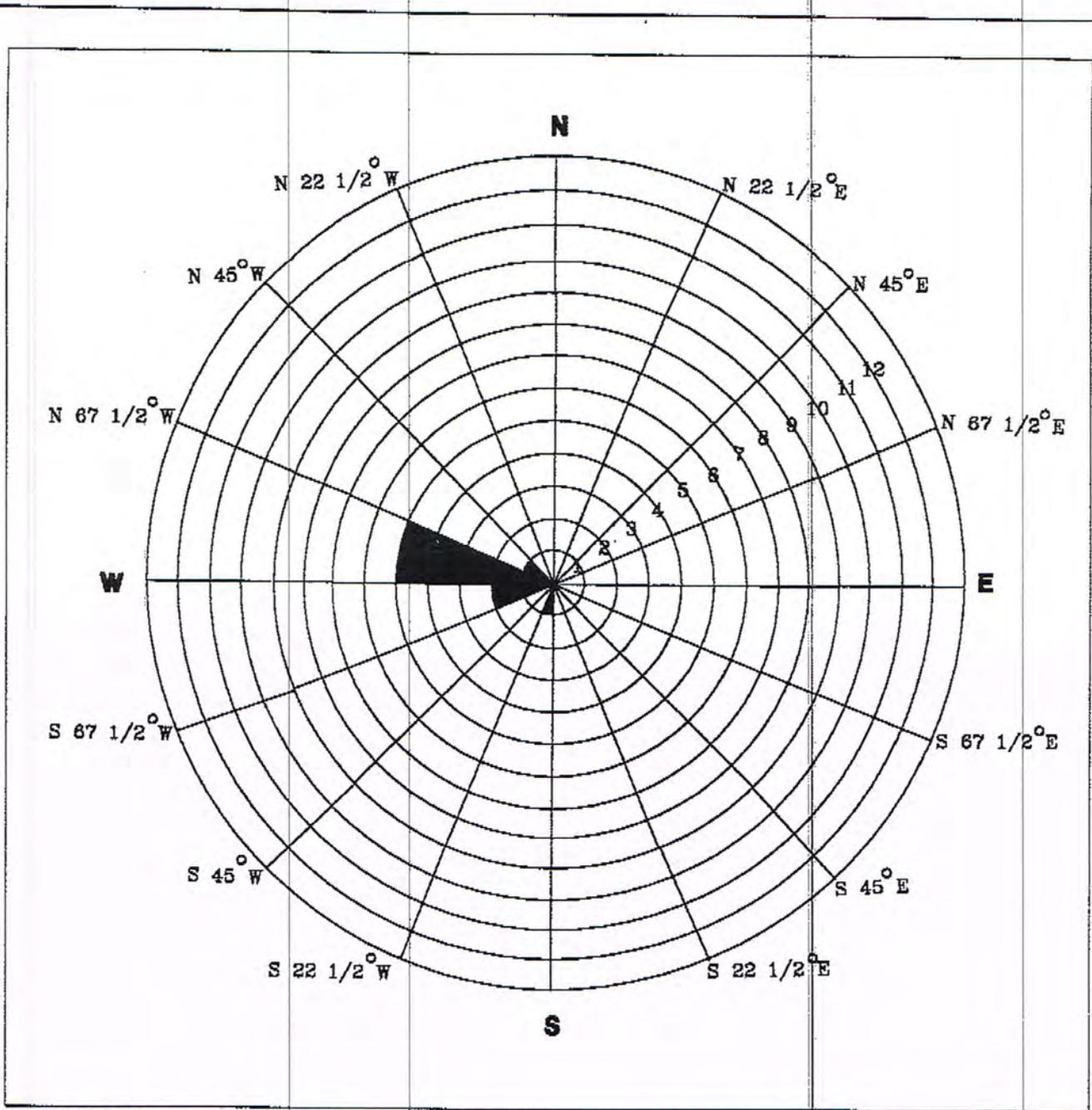
FORMER EXXON SERVICE STATION 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California

**PROJECT NO.**

2154

**PLATE**

4



FN 21540004

**EXPLANATION**

**N** Compass Direction  
 Nine Data Points Shown

Rose diagram developed by evaluating the hydraulic gradient from the quarterly monitoring data. Each shaded area on the rose diagram represents the number of monitoring events that the hydraulic gradient plotted in that 22 1/2 degree sector. For example, five hydraulic gradients plotted between west and north 22.5 degrees west. Therefore, the dominant hydraulic gradient as depicted by the rose diagram is between west and north 67.5 degrees west. Data obtained from groundwater monitoring, first quarter 1995 through first quarter 2000.



**GROUNDWATER FLOW DIRECTION  
 ROSE DIAGRAM**

FORMER EXXON SERVICE STATION 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California

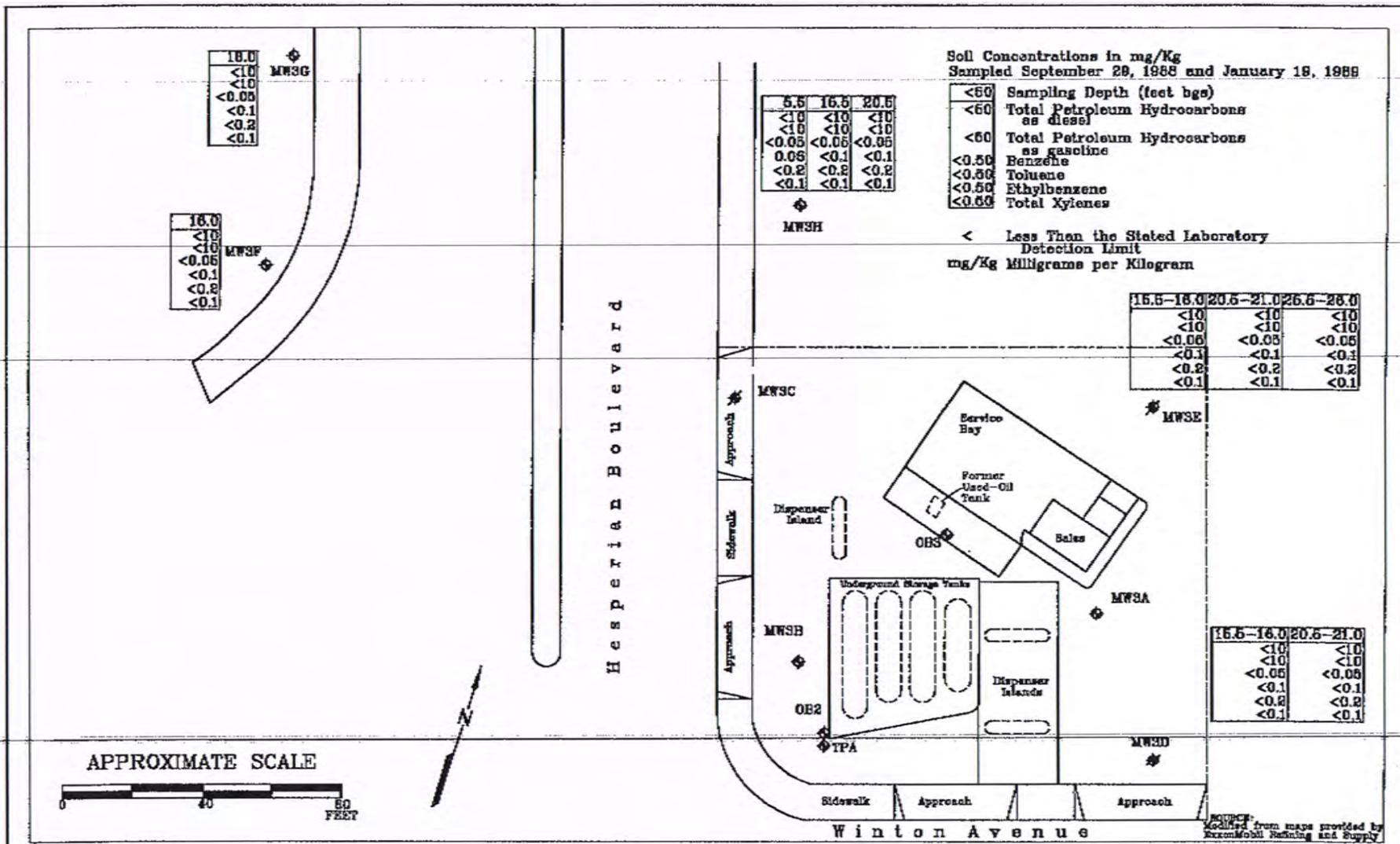
**PROJECT NO.**

2154

**PLATE**

5

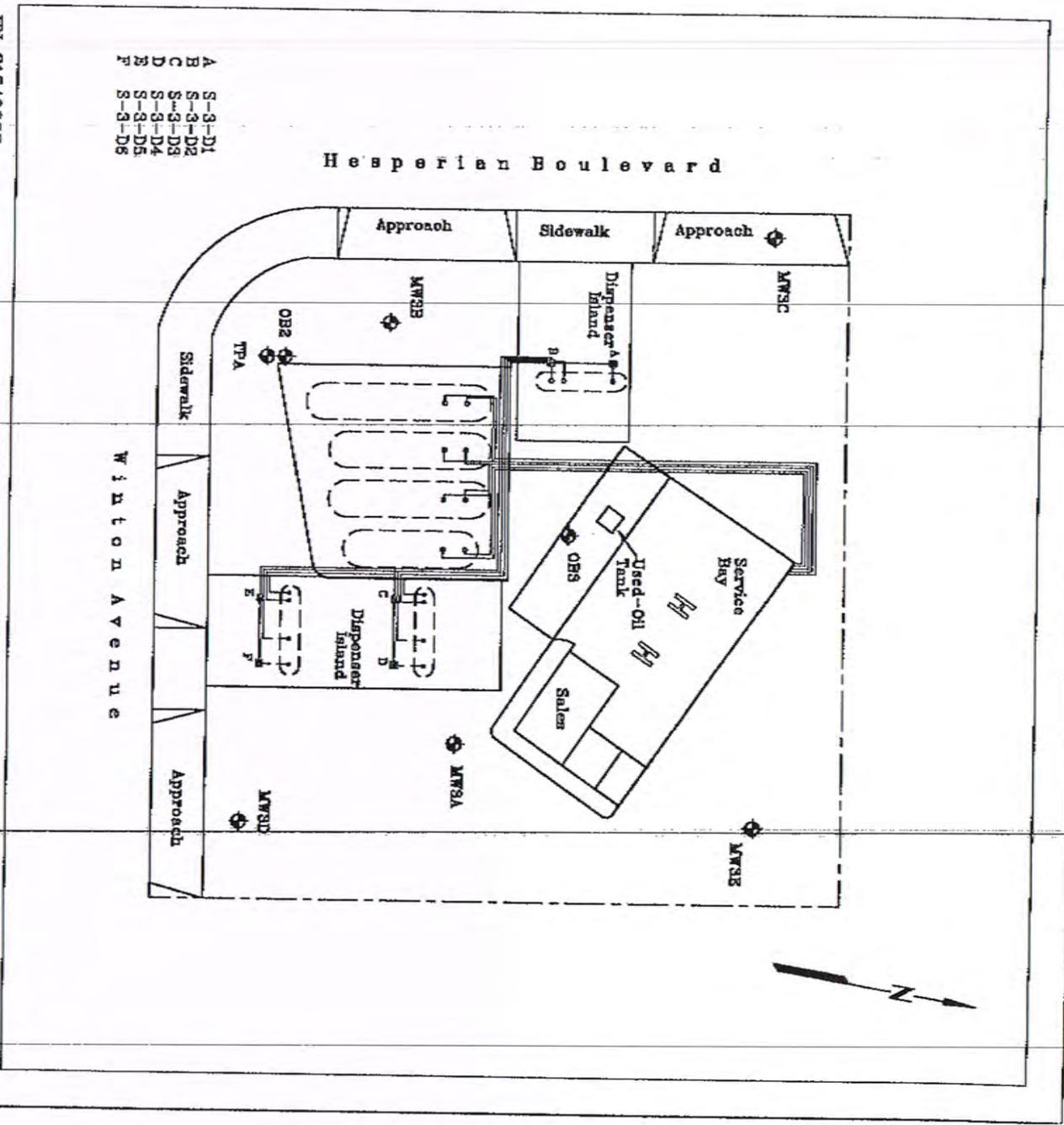
January 11, 2000



FN B1540002

SOURCE: Modified from maps provided by ExxonMobil Refining and Supply

	<p align="center"><b>SOIL DATA MAP</b></p> <p align="center">FORMER                  EXXON SERVICE STATION 7-0218                  23990 Hesperian Boulevard                  Hayward, California</p>	<p><b>EXPLANATION</b></p> <p>MW3# Groundwater Monitoring Well</p> <p>OBS# Observation Well</p> <p>MW3#* Well Destroyed</p>	<p><b>PROJECT NO.</b></p> <p align="center">2154</p>
			<p><b>PLATE</b></p> <p align="center">6</p>



- A S-3-D1
- B S-3-D2
- C S-3-D3
- D S-3-D4
- E S-3-D5
- F S-3-D6

FN 21540003

**EXPLANATION**

- ◆ Groundwater Monitoring Well (Installed by others)
- ◆ MW3H Observation Well
- H Hoist
- Vent and Product Lines
- - - - - Soil-Depth-Location (Sample Designation)



SOURCE:  
Modified from a map  
provided by  
ExxonMobil Corporation



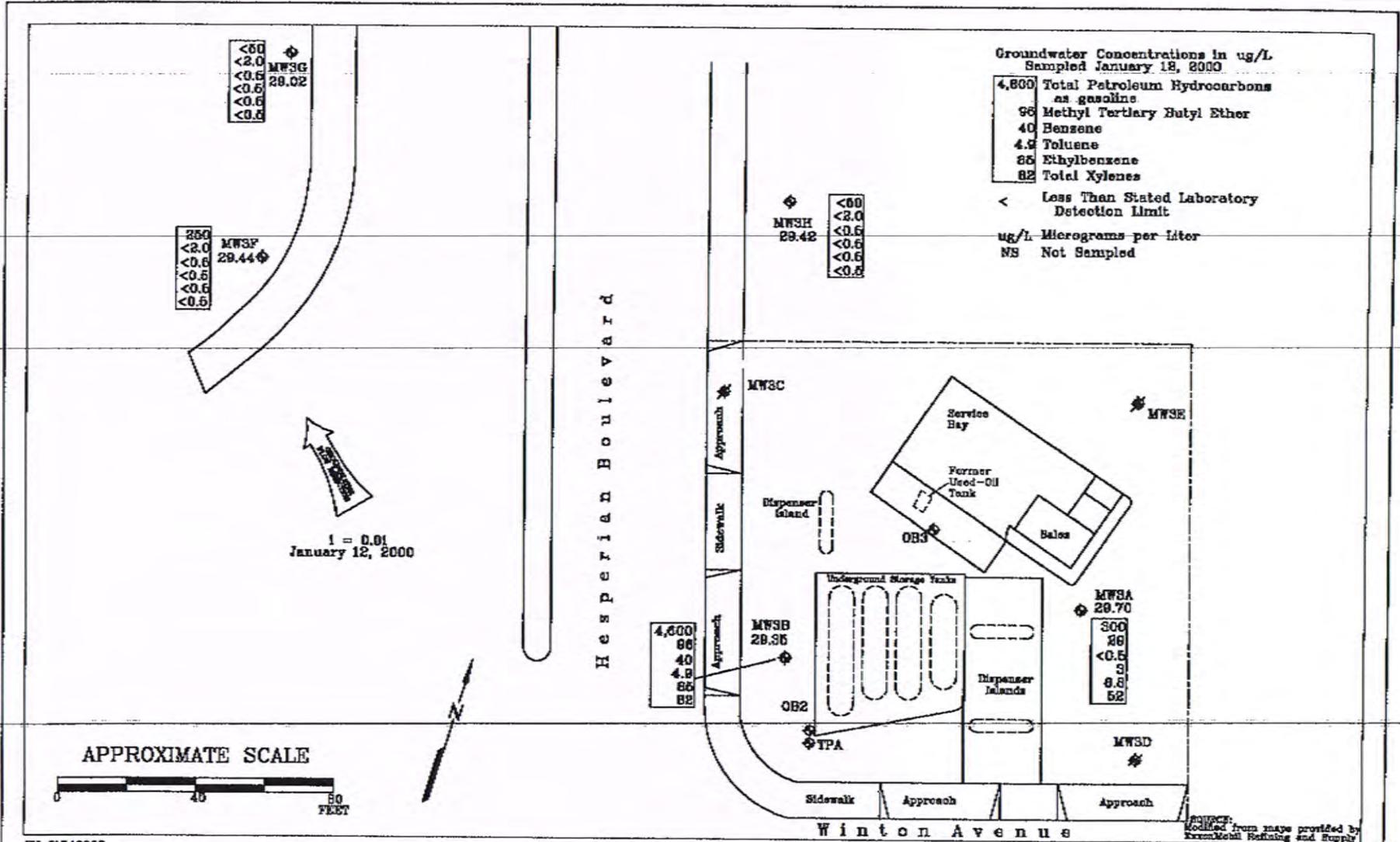
**PRODUCT PIPING SAMPLE LOCATIONS**

FORMER EXXON SERVICE STATION 7-0218  
23990 Hesperian Blvd./Winton Ave.  
Hayward, California

PROJECT NO.  
2154

PLATE  
7

DATE: 8/24/09



Modified from maps provided by ExxonMobil Refining and Supply

FN 21540068



**GROUNDWATER MONITORING DATA**  
 FORMER  
**EXXON SERVICE STATION 7-0218**  
 23990 Hesperian Boulevard  
 Hayward, California

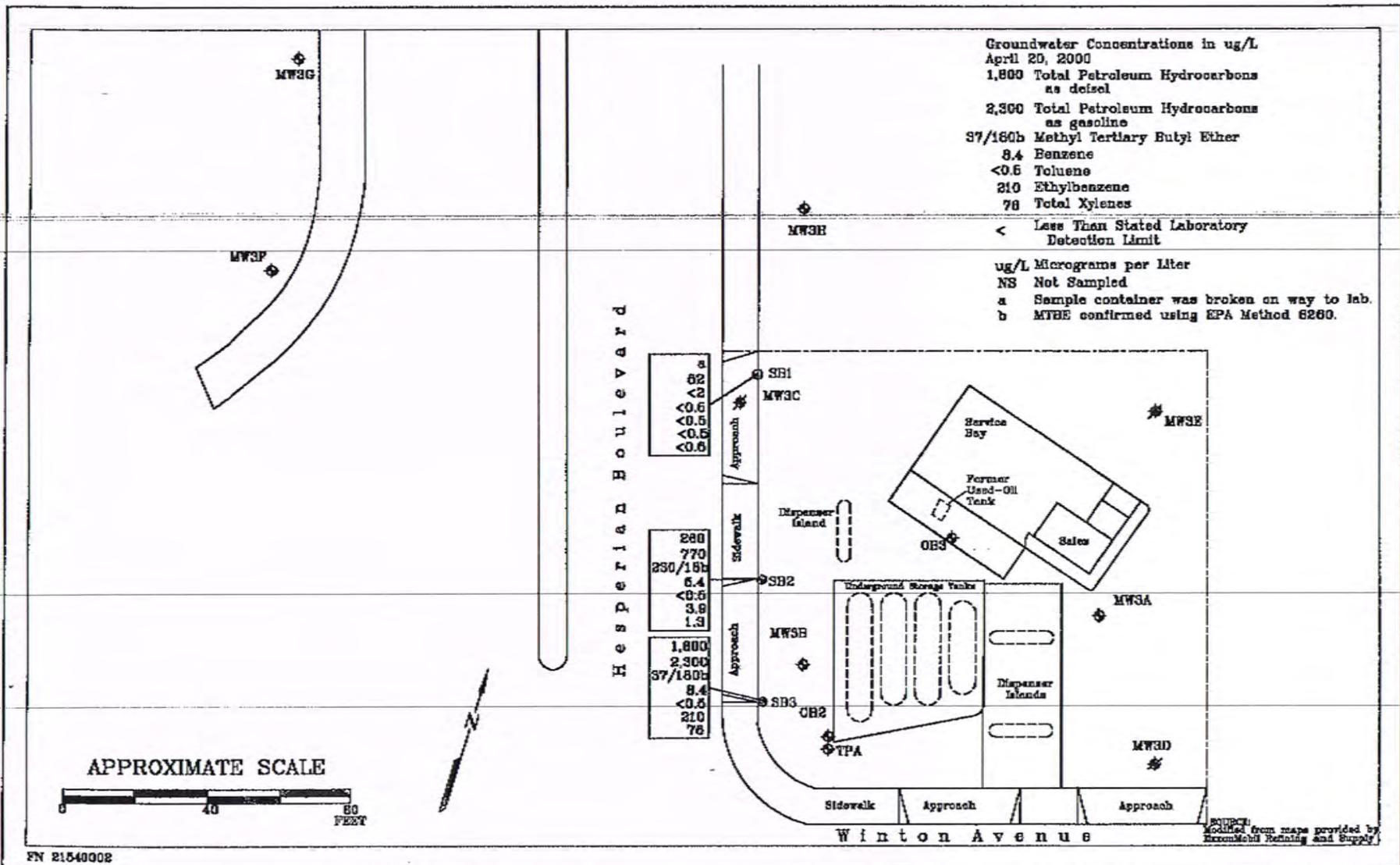
**EXPLANATION**

MW3H	Groundwater Monitoring Well
28.15	Groundwater Elevation in Feet Above Mean Sea Level
OB2	Observation Well
MW3E	Well Destroyed
1 =	Interpreted Hydraulic Gradient

**PROJECT NO.**  
 2154

**PLATE**  
 8

January 21 2000



**SOIL BORING LOCATION MAP**  
 FORMER  
 EXXON SERVICE STATION 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California

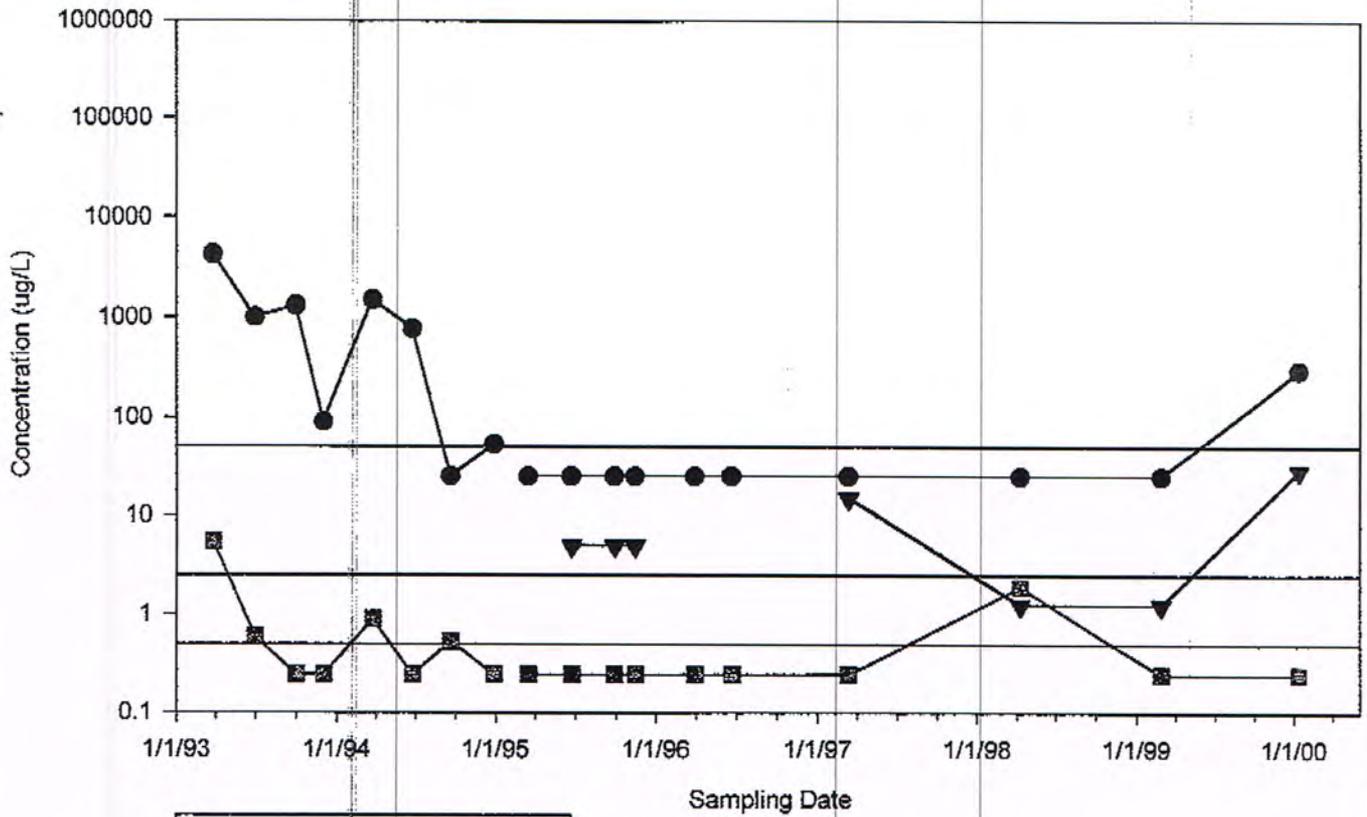
**EXPLANATION**

- MW3H Groundwater Monitoring Well
- OB2 Observation Well
- MW3E Well Destroyed
- SB1 Soil Boring

**PROJECT NO.**

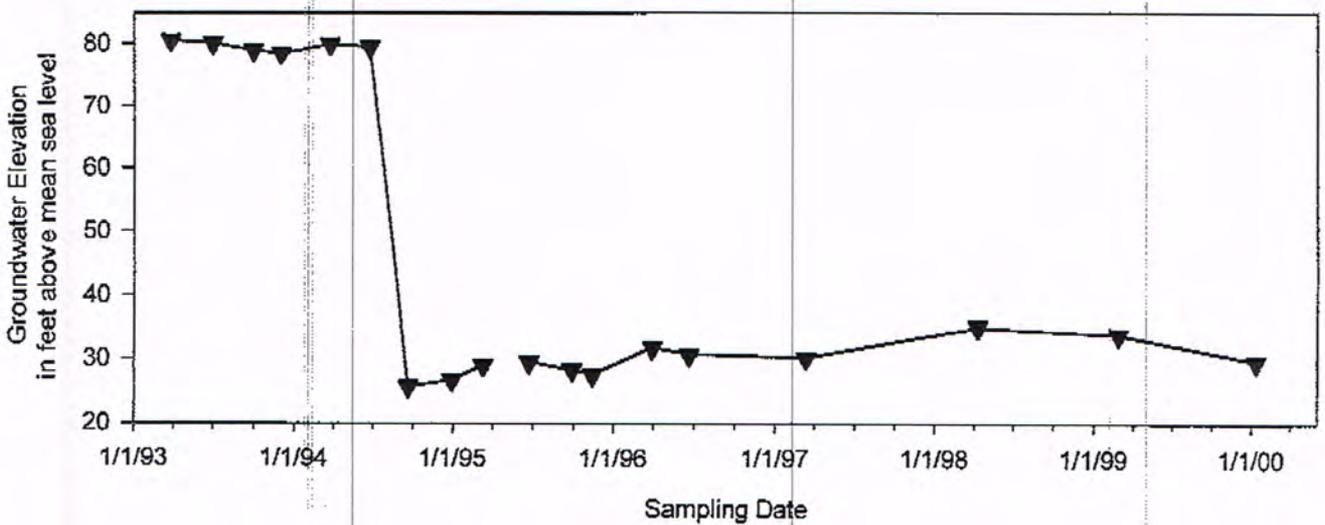
2154  
**PLATE**  
 9

**Graph 1**  
**Hydrograph - MW3A**  
**Former Exxon Service Station 7-0218**  
**23990 Hesperian Boulevard**  
**Hayward, California**

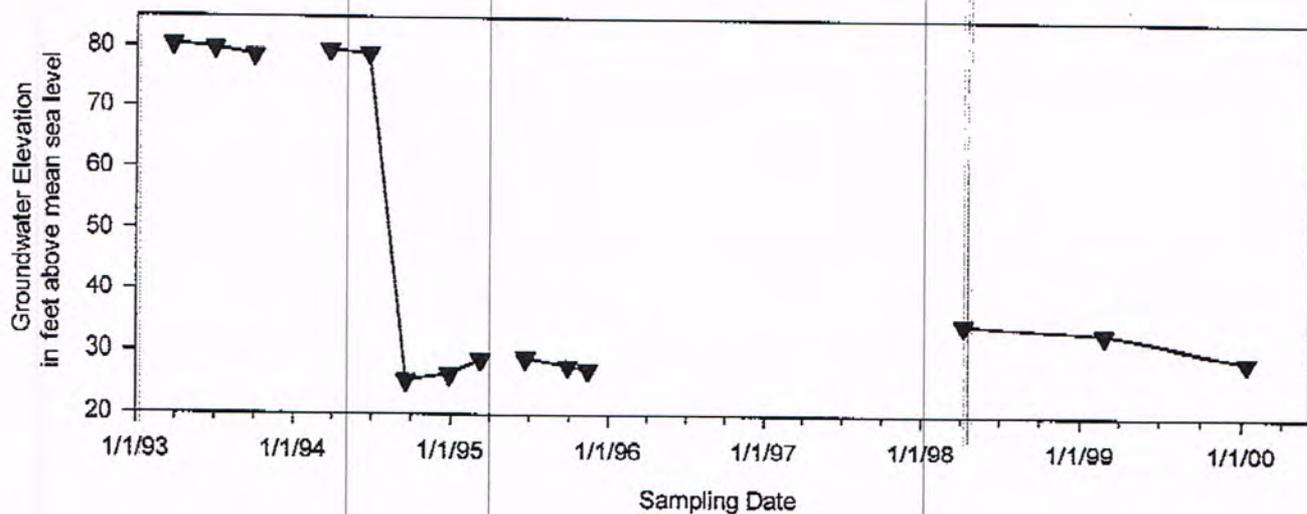
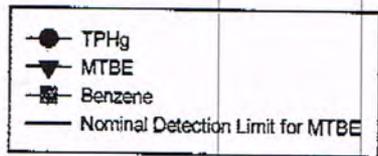
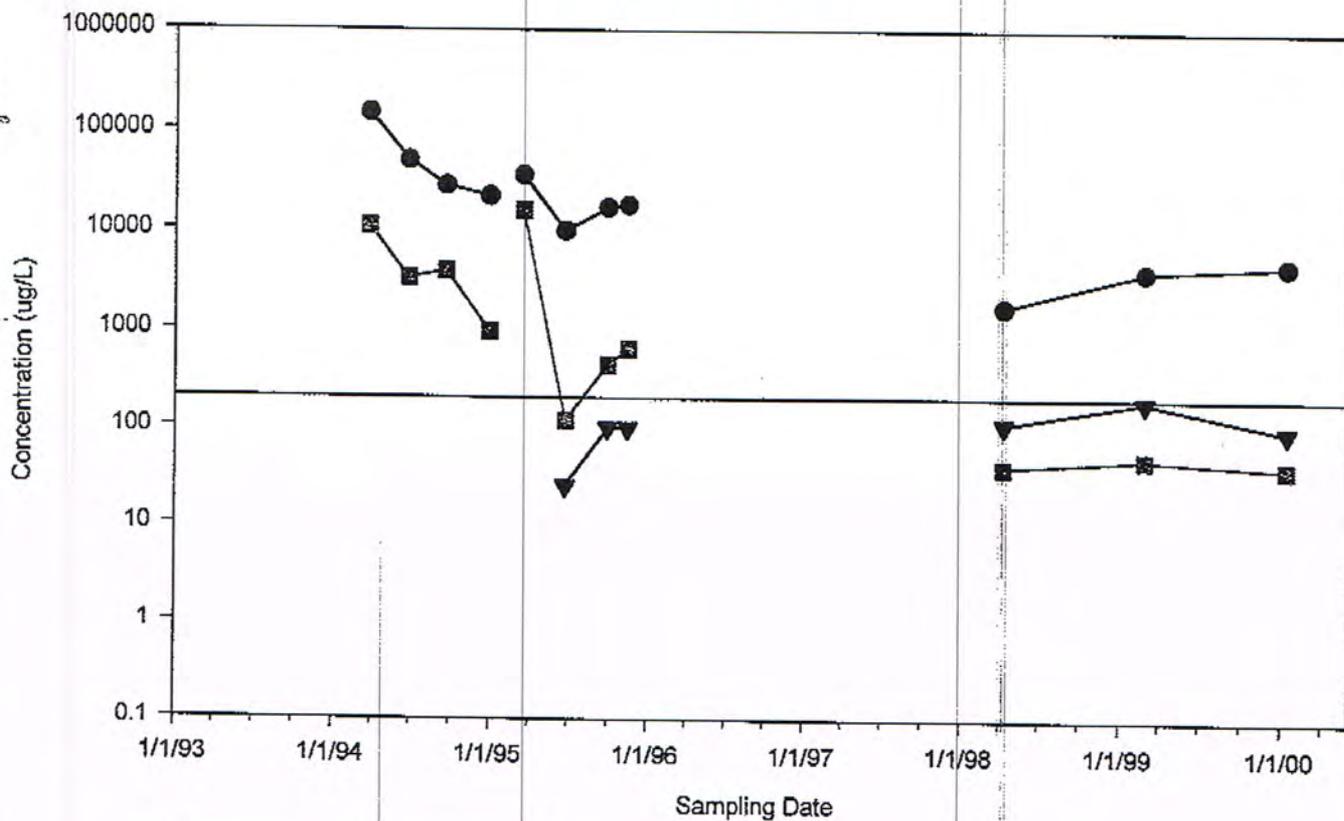


- TPHg
- ▼ MTBE
- Benzene
- Nominal Detection Limit for TPHg
- Nominal Detection Limit for MTBE
- Nominal Detection Limit for Benzene

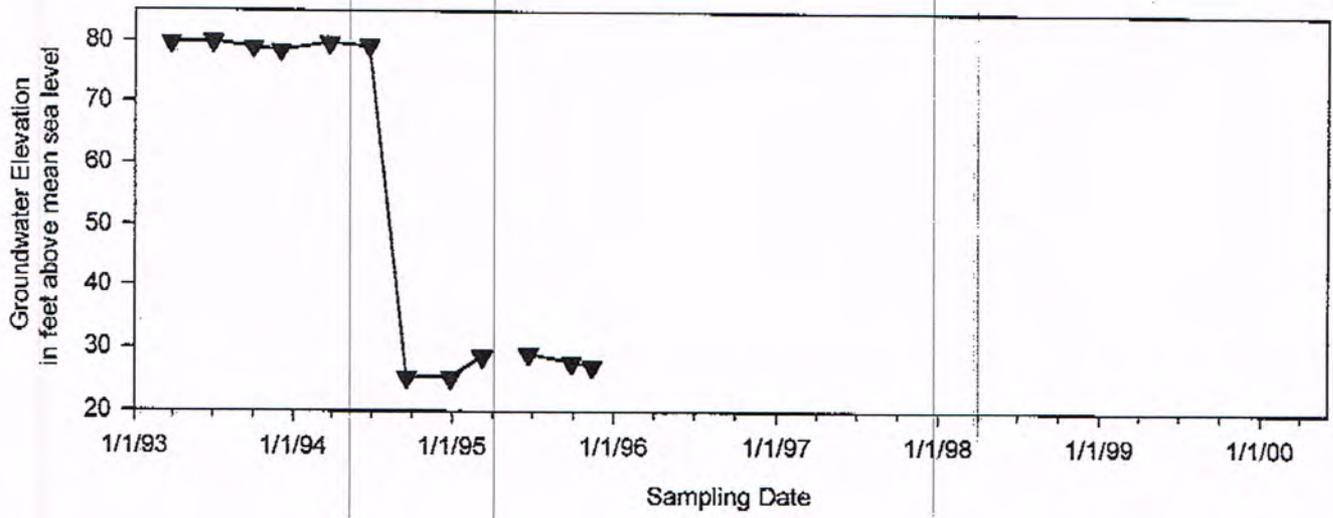
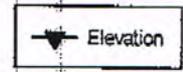
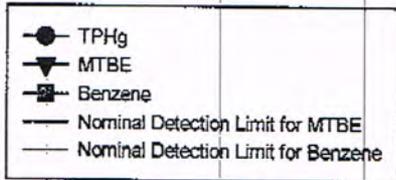
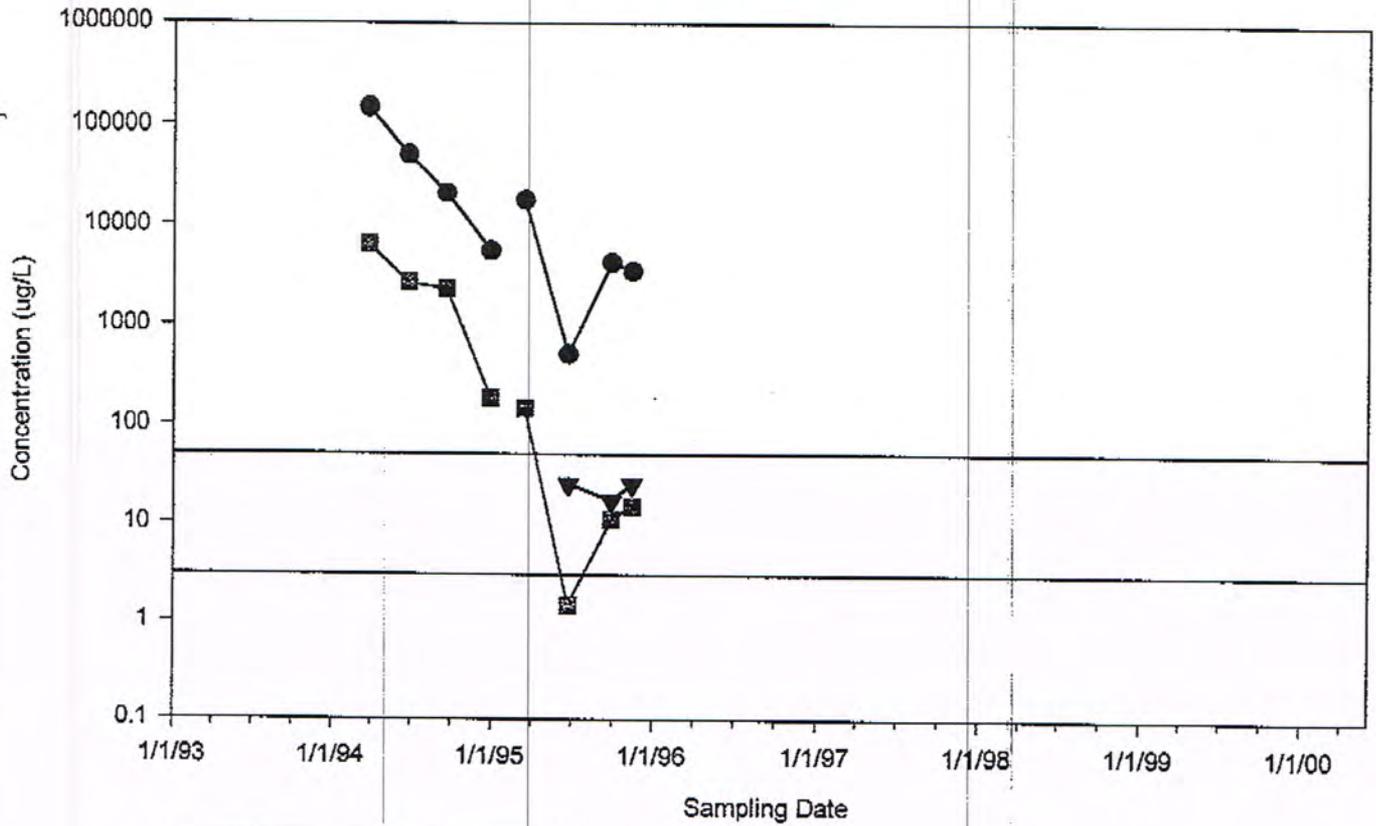
- ▼ Elevation



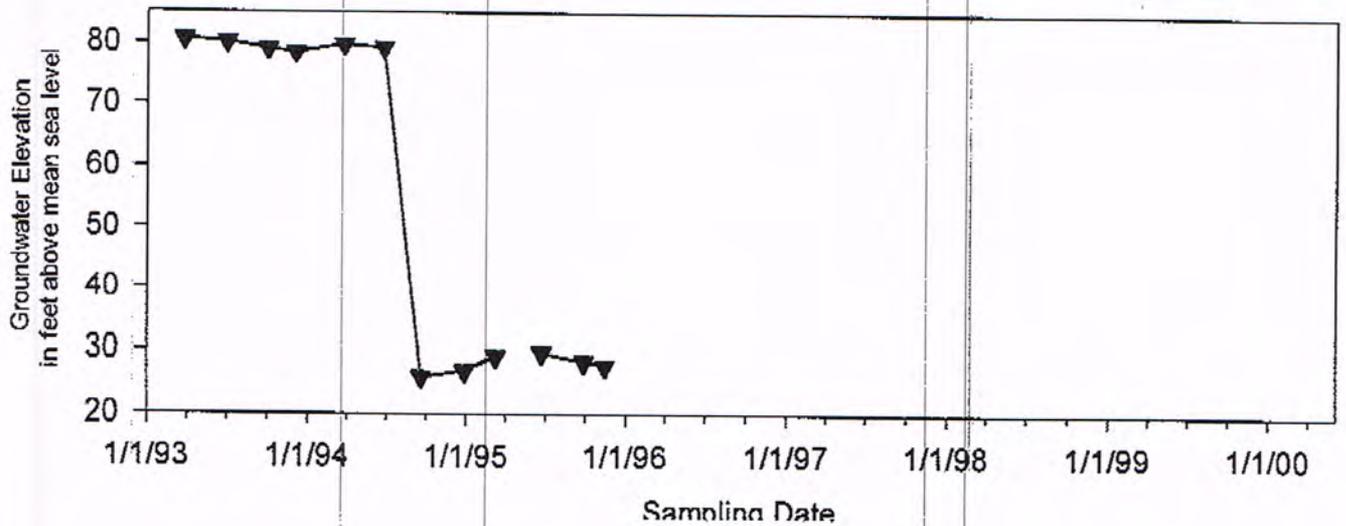
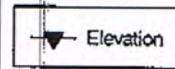
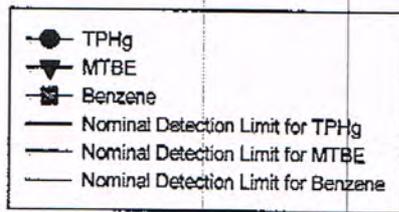
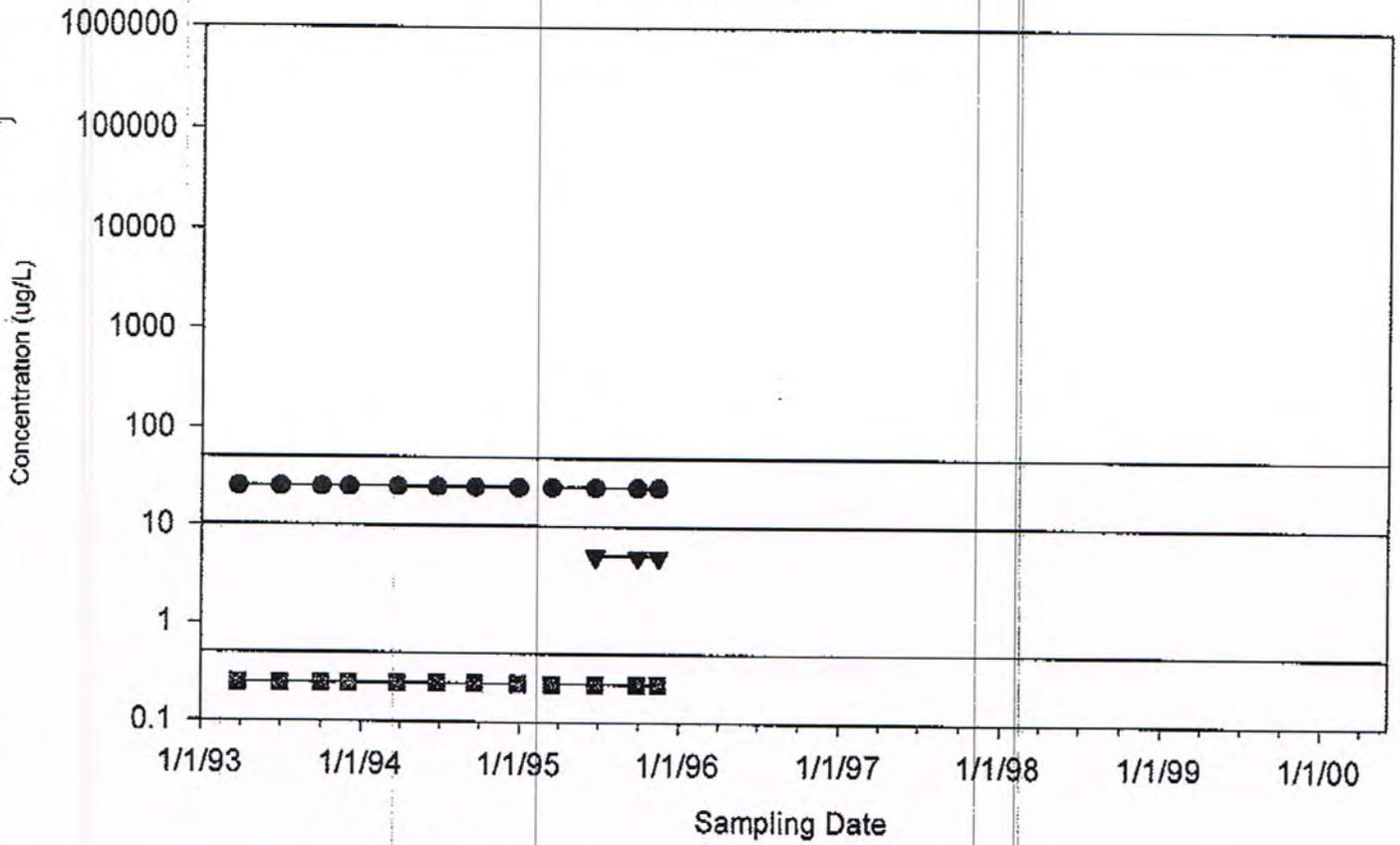
### Graph 2 Hydrograph - MW3B Former Exxon Service Station 7-0218 23990 Hesperian Boulevard Hayward, California



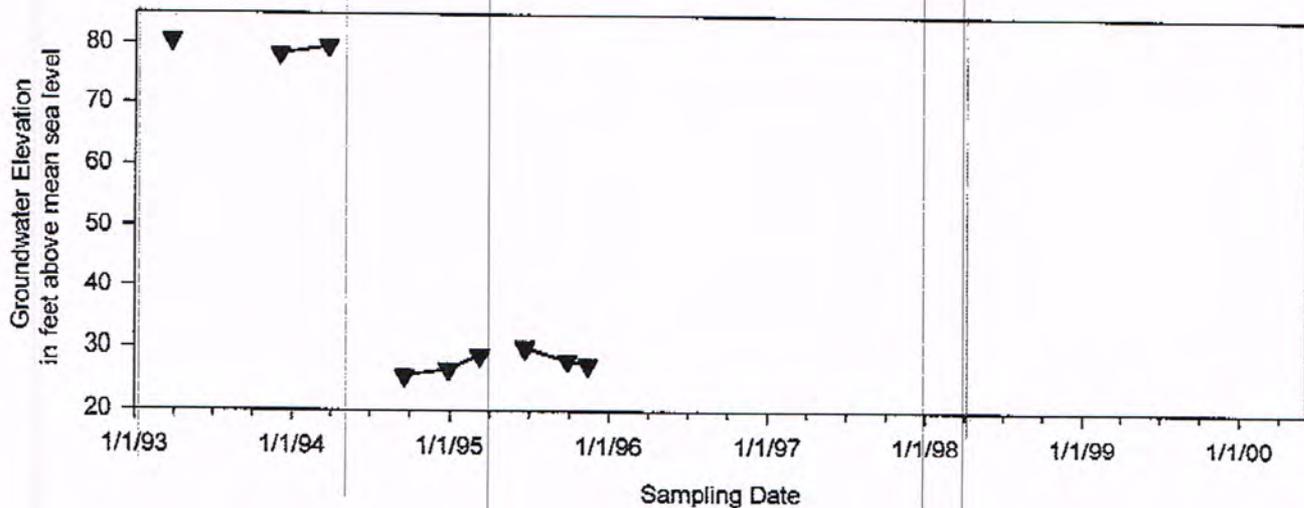
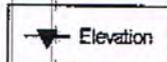
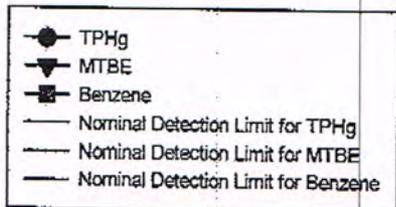
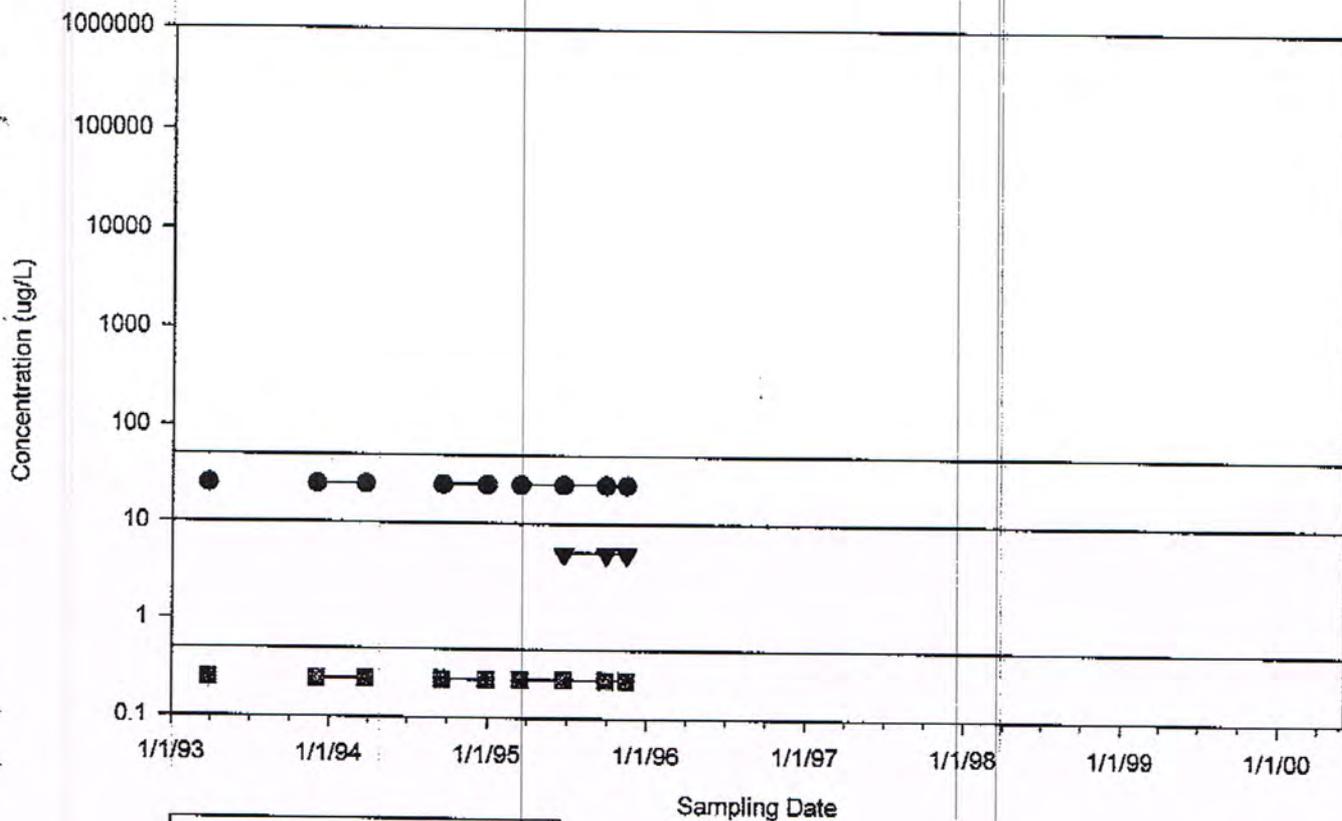
**Graph 3**  
**Hydrograph - MW3C**  
**Former Exxon Service Station 7-0218**  
**23990 Hesperian Boulevard**  
**Hayward, California**



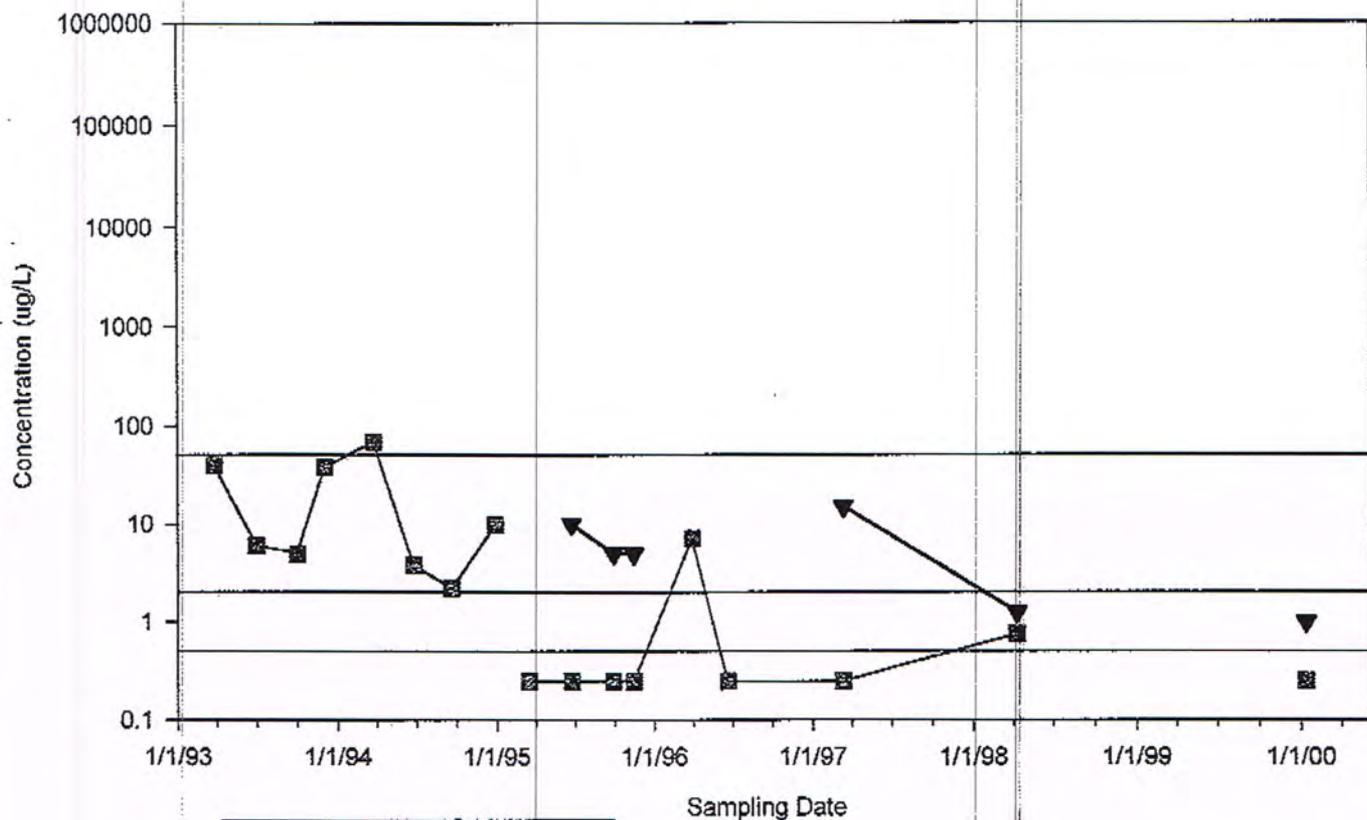
**Graph 4  
Hydrograph - MW3D  
Former Exxon Service Station 7-0218  
23990 Hesperian Boulevard  
Hayward, California**



**Graph 5**  
**Hydrograph - MW3E**  
**Former Exxon Service Station 7-0218**  
**23990 Hesperian Boulevard**  
**Hayward, California**

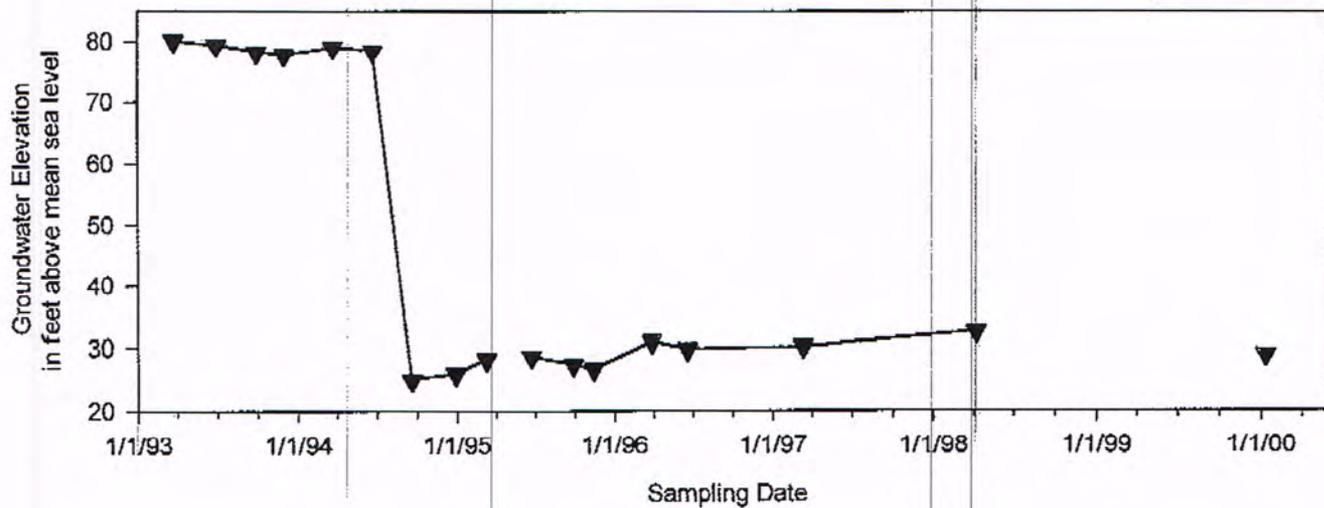


### Graph 6 Hydrograph - MW3F Former Exxon Service Station 7-0218 23990 Hesperian Boulevard Hayward, California

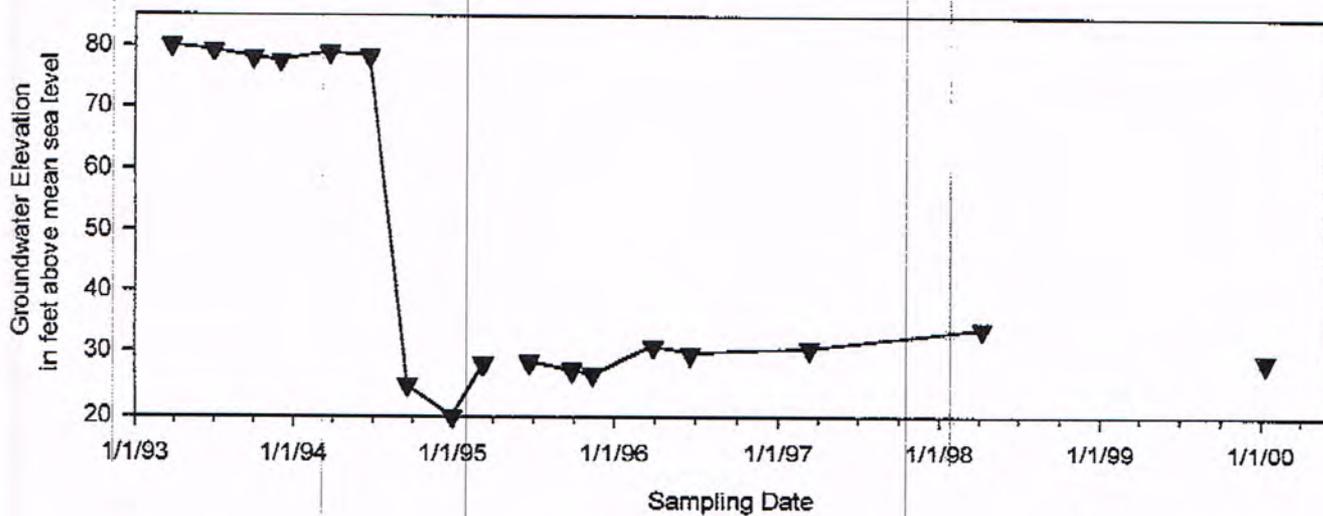
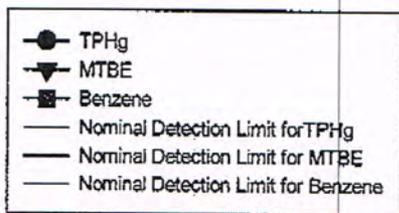
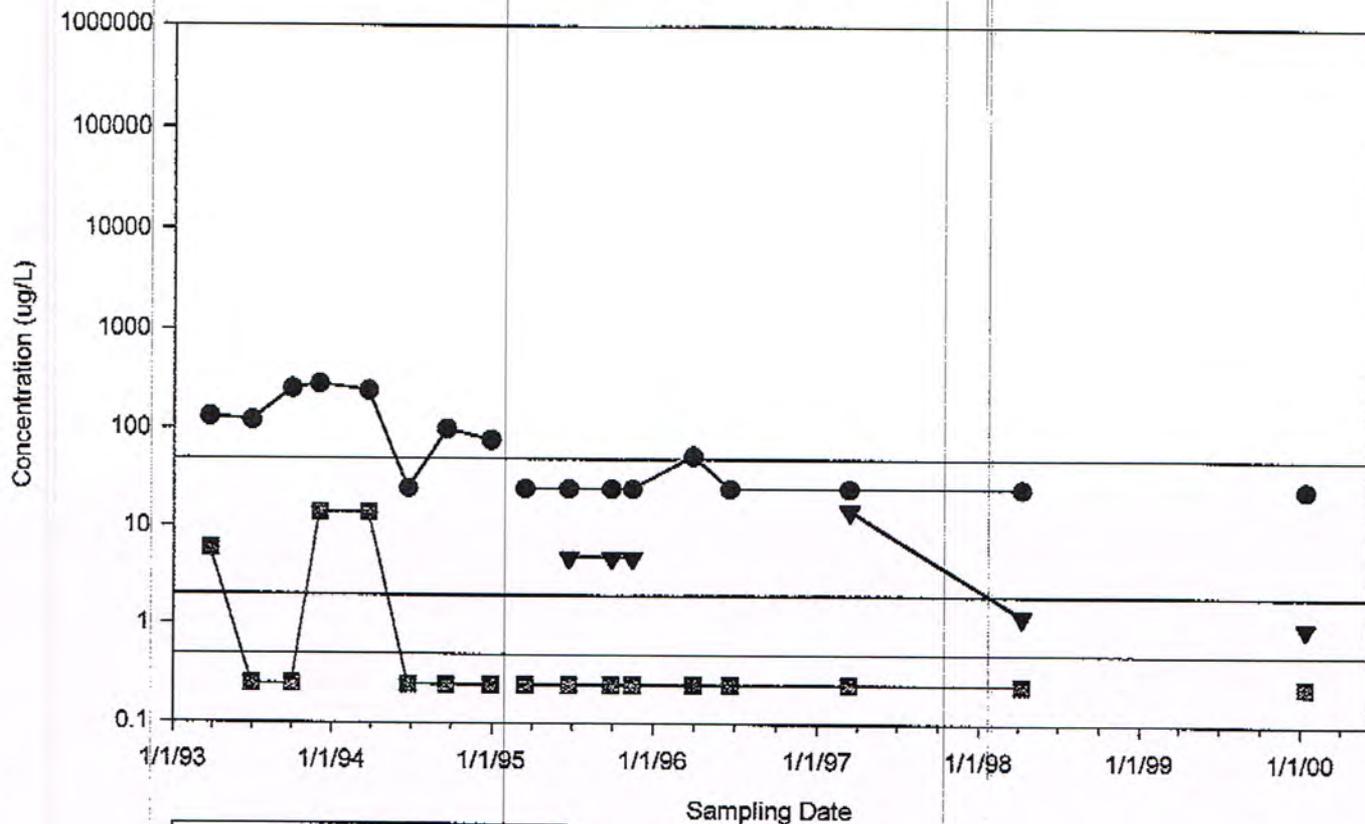


- TPHg
- ▼ MTBE
- Benzene
- Nominal Detection Limit for TPHg
- Nominal Detection Limit for MTBE
- Nominal Detection Limit for Benzene

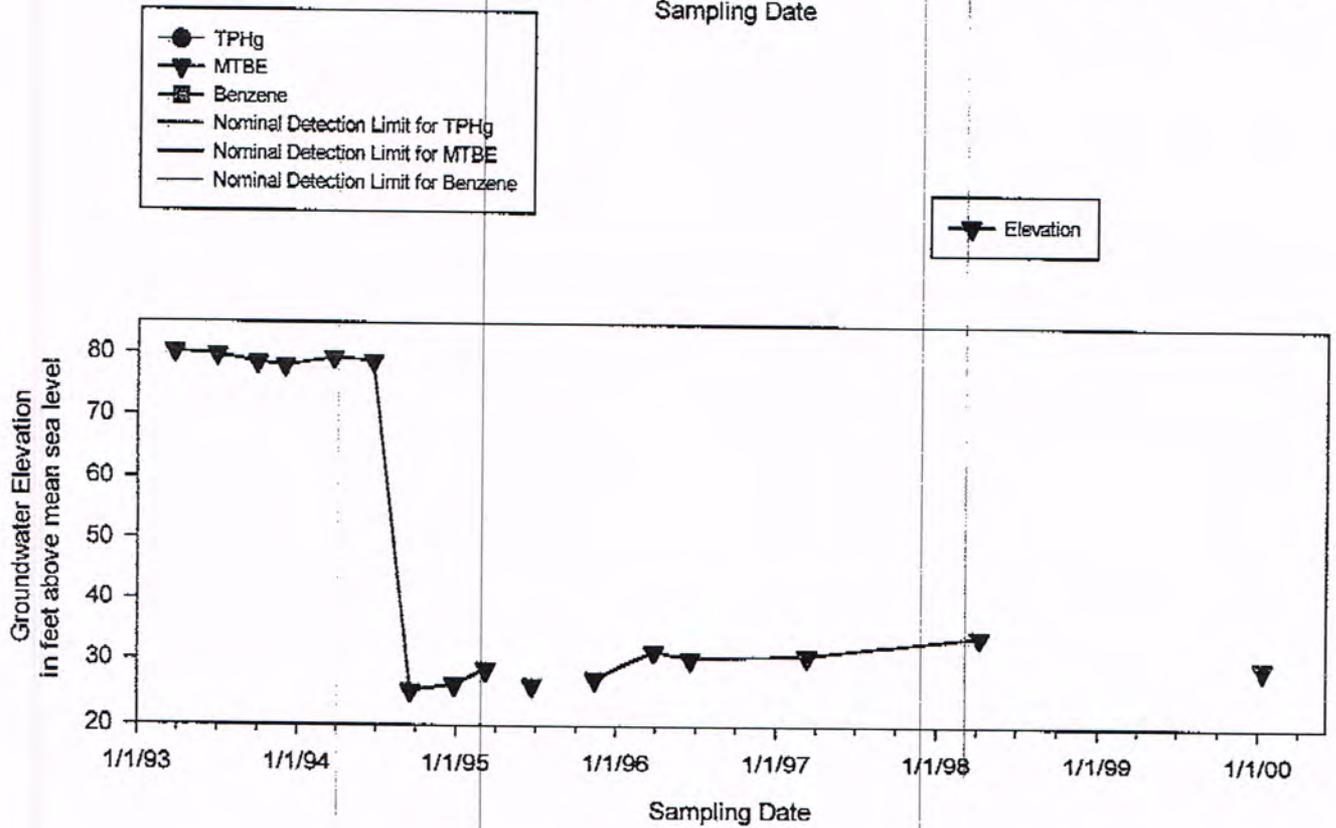
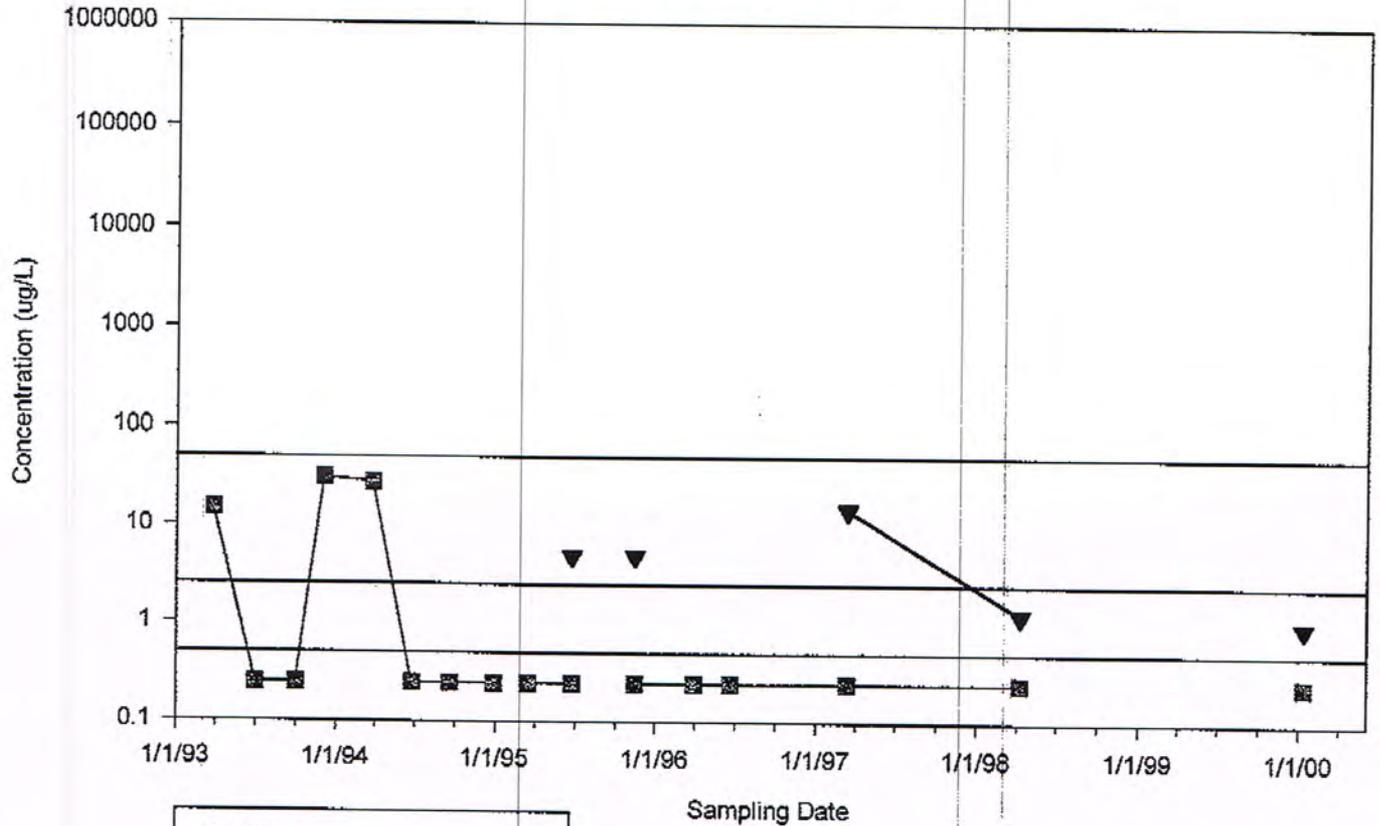
- ▼ Elevation



**Graph 7**  
**Hydrograph - MW3G**  
**Former Exxon Service Station 7-0218**  
**23990 Hesperian Boulevard**  
**Hayward, California**



**Graph 8  
Hydrograph - MW3H  
Former Exxon Service Station 7-0218  
23990 Hesperian Boulevard  
Hayward, California**



**APPENDIX A**

**CITY OF HAYWARD FIRE DEPARTMENT LETTER  
DATED JANUARY 30, 2001**

Closure for Exxon 7-0218

**Subject: Closure for Exxon 7-0218**

**Date:** Tue, 30 Jan 2001 13:03:57 -0800

**From:** "Danny Galang" <DannyG@ci.hayward.ca.us>

**To:** darin.l.rouse@exxon.com

**CC:** JChappell@eri-us.com

I received a request for closure for the case at the site captioned above (23990 Hesperian Blvd., Hayward). While the Site Closure Summary and the attachments are in order, we need a more detailed recommendation letter.

May I request that a more comprehensive Recommendation for Closure be submitted along with the completed Site Closure Summary, site plan, and diagrams. Attached is an outline for such a recommendation, as favored by the Regional Board.

Also, please email me the completed site closure summary so that we can re-format and make revisions to it to fit Regional Board requirements.

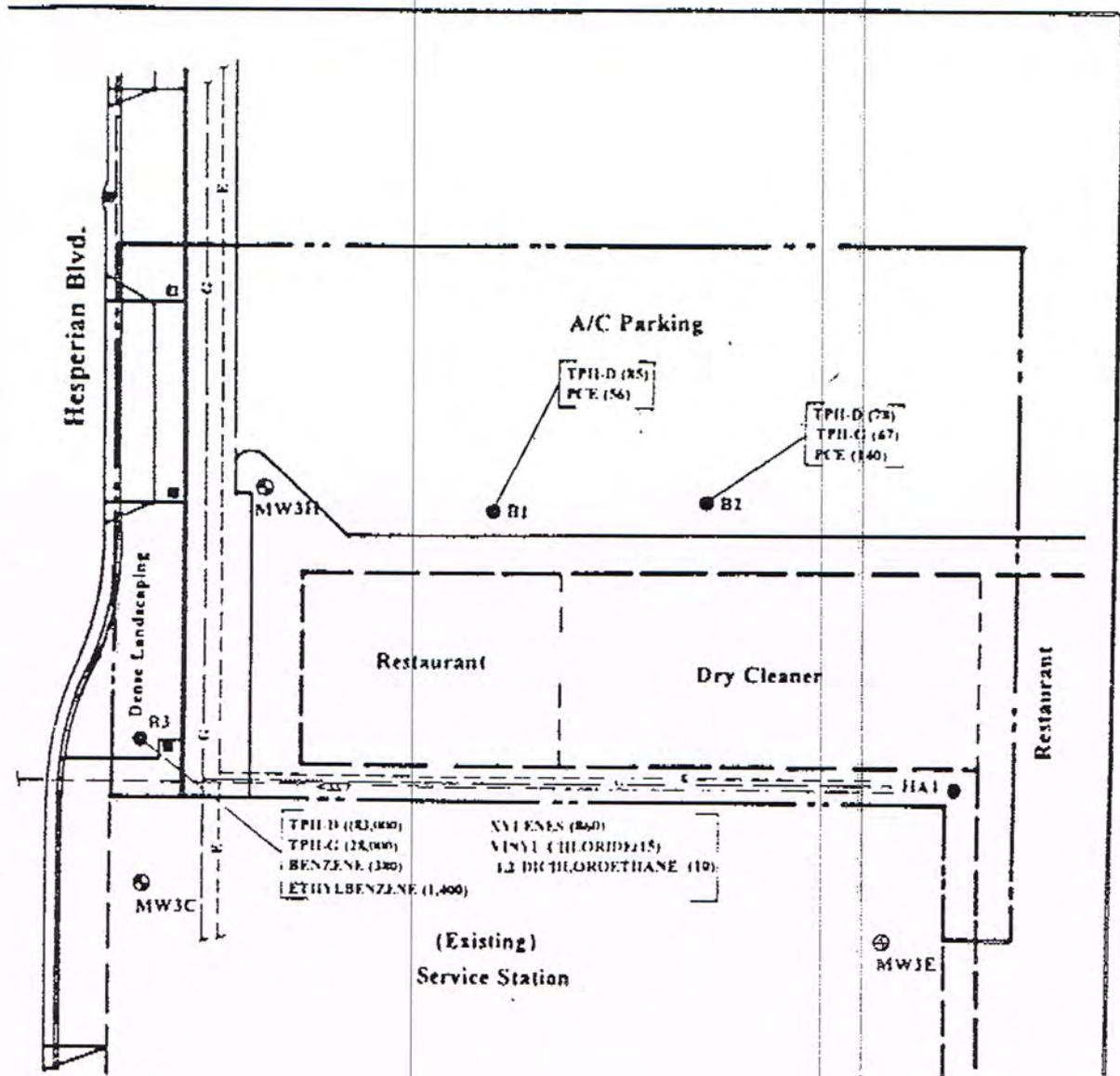
If you have any questions re these requests, please call me at (510) 583-4925. Thanks.

Danny Galang

 Outline of Closure Recommendation.doc

Name: Outline of Closure Recommendation.doc  
Type: WINWORD File (application/msword)  
Encoding: base64

**APPENDIX B**  
**SOIL BORING LOCATION MAP**



**Legend**

⊕ (Existing) Monitoring Wells

● Soil Borings

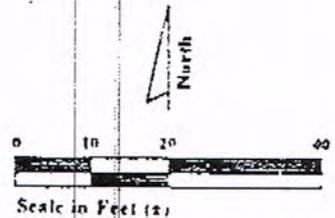
■ D.I.

— Gas Line

— Electric Line

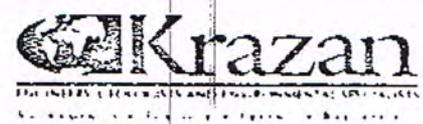
B1 [PCE (56)] (Concentration in ppb of listed constituent detected in groundwater sample)

**SOIL BORING LOCATION MAP**



Proposed Taco Bell  
# 06-1052  
Hesperian Blvd. &  
West Winton Way  
Hayward, Ca.

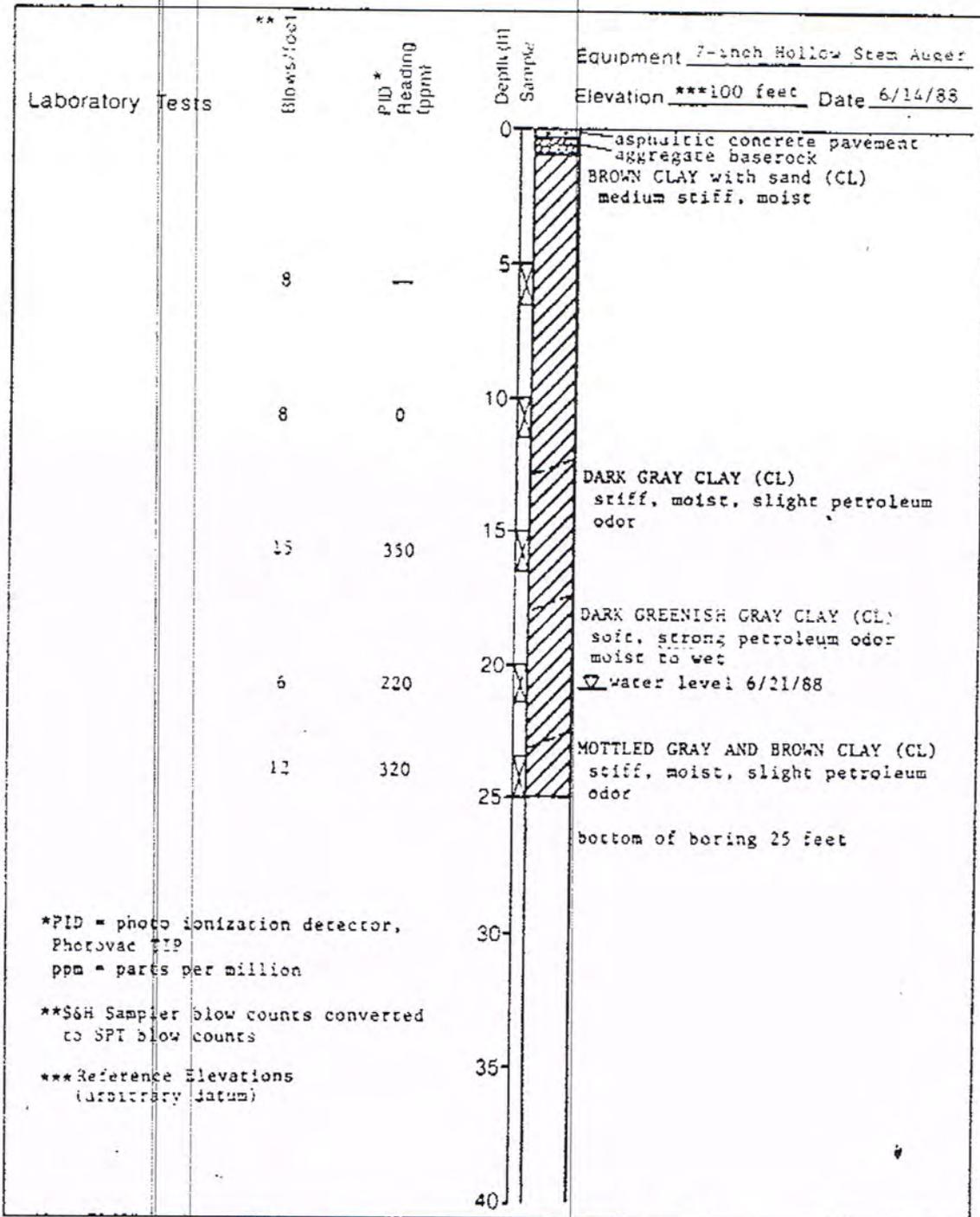
Scale AS NOTED	Date 11-94
Drawn by D.M.W.	Approved by D.M.
Project No 34 94 297	Figure No 2



000043108

**APPENDIX C**

**UNIFIED SOIL CLASSIFICATION SYSTEM AND BORING LOGS**



\*PID = photo ionization detector,  
Phorovac #19  
ppm = parts per million

\*\*S6H Sampler blow counts converted  
to SPT blow counts

\*\*\*Reference Elevations  
(Arbitrary datum)



**Harding Lawson Associates**  
engineers, geologists  
& geotechnicians

**Log of Boring MW-3A**  
Texaco Station - 62488000 44  
21990 Hesperian Boulevard  
Hayward, California

3

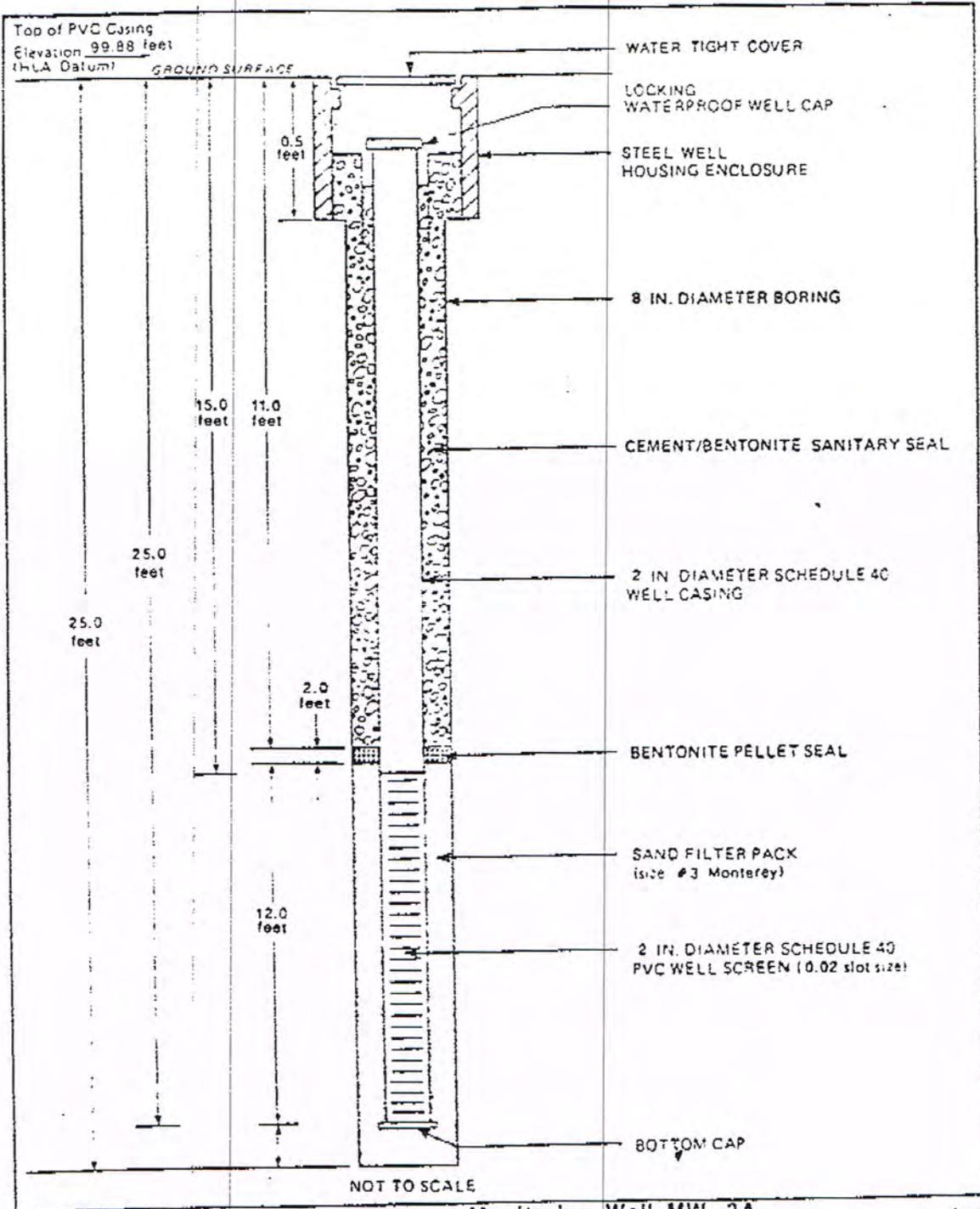
HS

2251,049 04

40

7 88

000035158



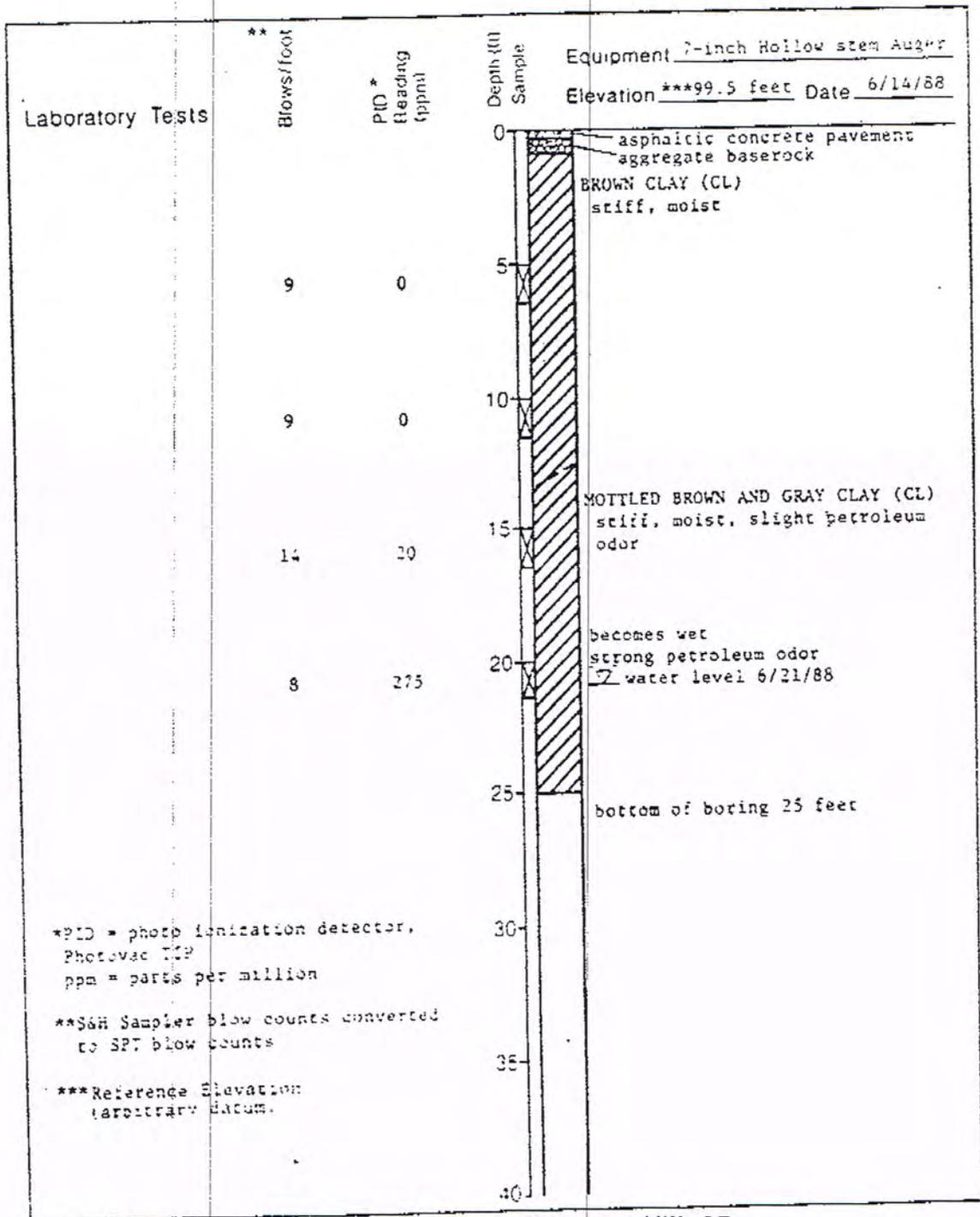
**Harding Lawson Associates**  
Engineers, Geologists  
and Architects

**Monitoring Well MW-3A  
Completion Detail**  
Tulare Station - 6248800055  
2990 Hesperian Boulevard  
Hawthorne, California

**7**

DATE	PROJECT NO.	SCALE	DATE
RS	2251049.04	1/30	7/88

000035161



\*PID = photo ionization detector, Photovac TSP  
ppm = parts per million

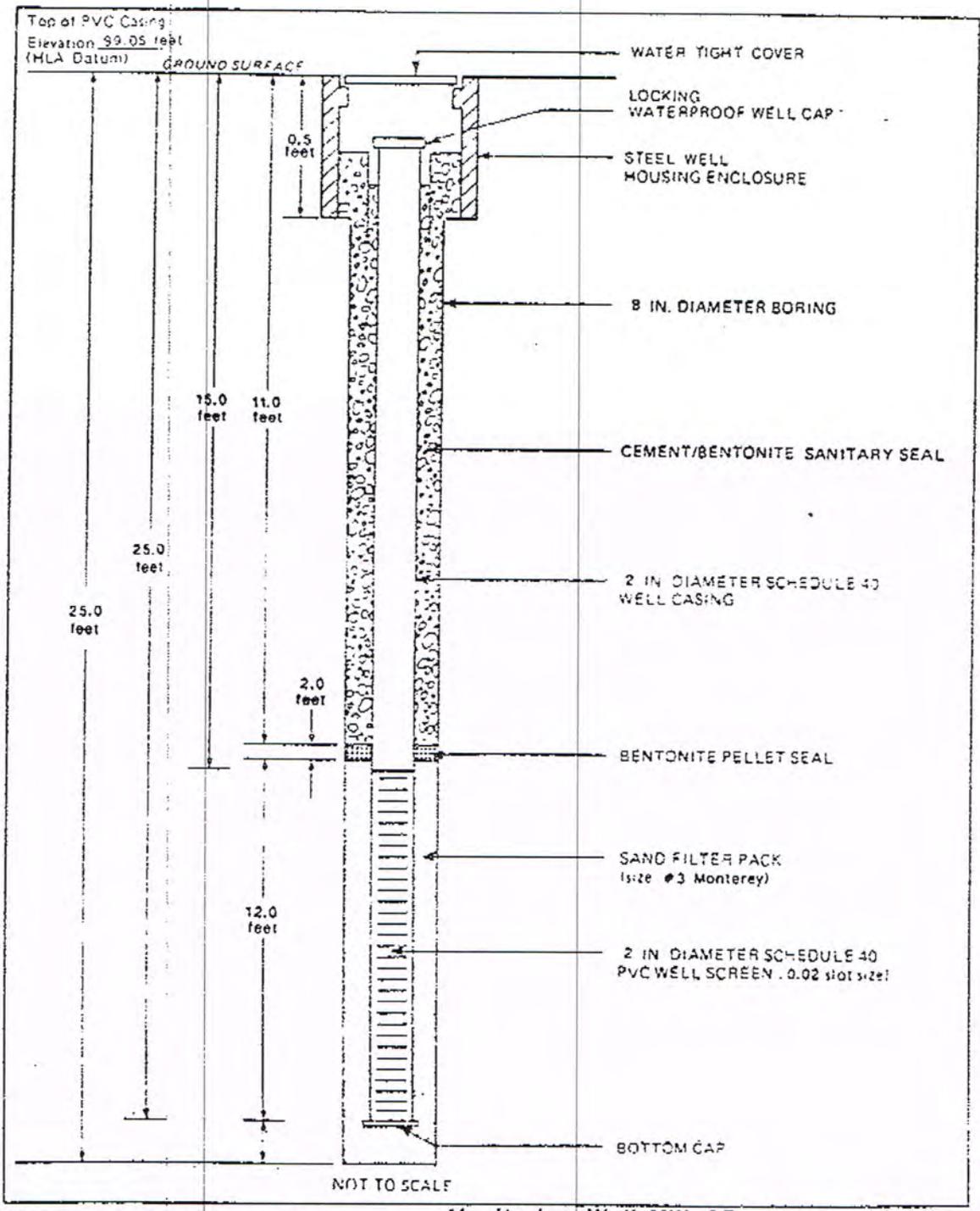
\*\*S&H Sampler blow counts converted to SPT blow counts

\*\*\*Reference Elevation (arbitrary datum)



Harding Lawson Associates  
21900 Hesperian Boulevard  
Hayward, California 94528

Log of Boring MW-3B  
Texaco Station # 41-8800000  
21900 Hesperian Boulevard  
Hayward, California 94528



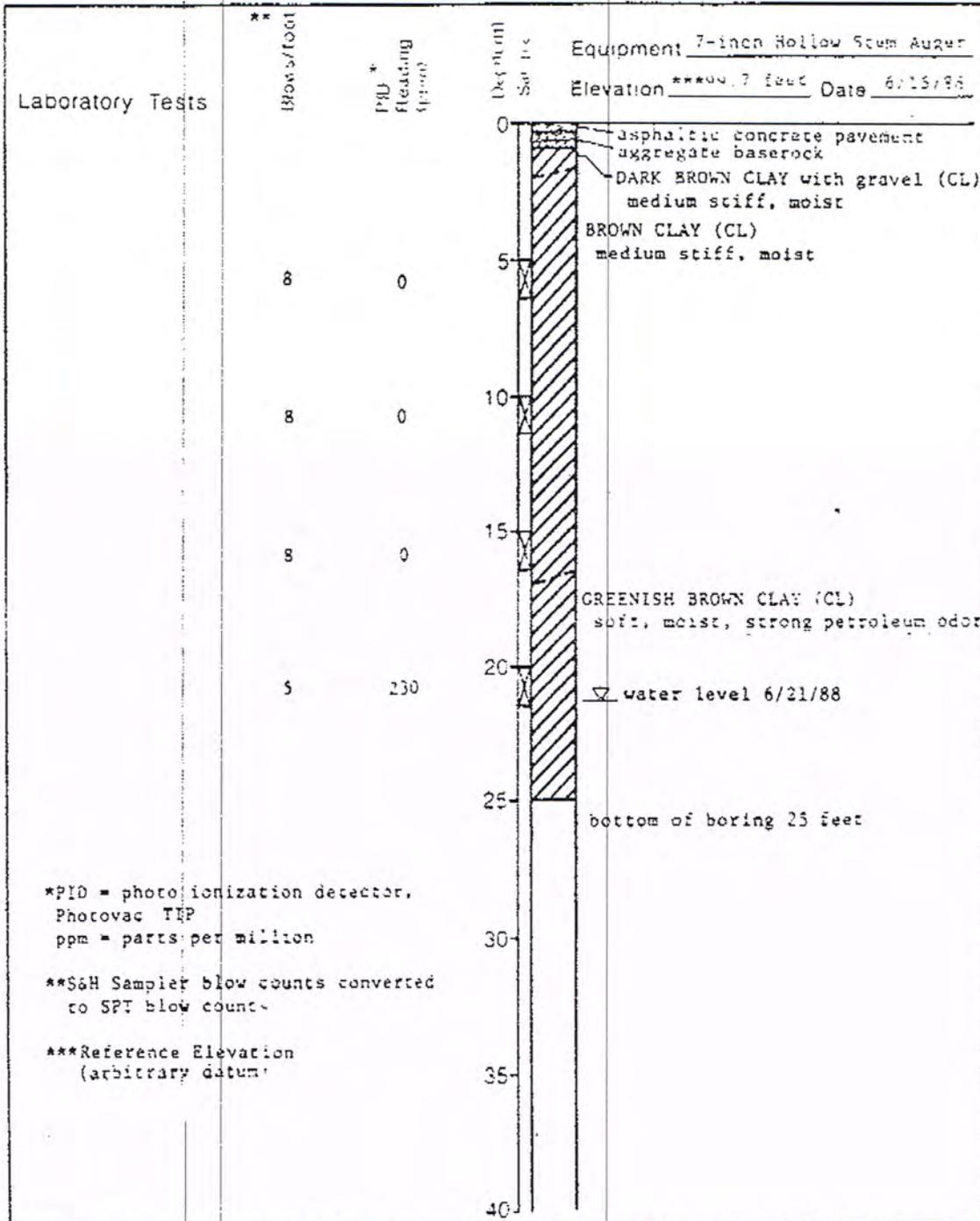
**Harding Lawson Associates**  
Engineers, Geologists  
& Environmental Scientists

**Monitoring Well MW-3B**  
**Completion Detail**  
Lexaco Station - 52-5800055  
3990 Hesperian Boulevard  
Hayward, CA 94545

8

2251347 01

000035162



\*PID = photo ionization detector,  
Photovac TEP  
ppm = parts per million

\*\*S&H Sampler blow counts converted  
to SPT blow counts

\*\*\*Reference Elevation  
(arbitrary datum)



Harding Lawson Associates  
Engineers, Geologists  
& Geoscientists

### Log of Boring MW-3C

Texas Station - 6248800055  
23990 Hesperian Boulevard  
Hayward, California

5

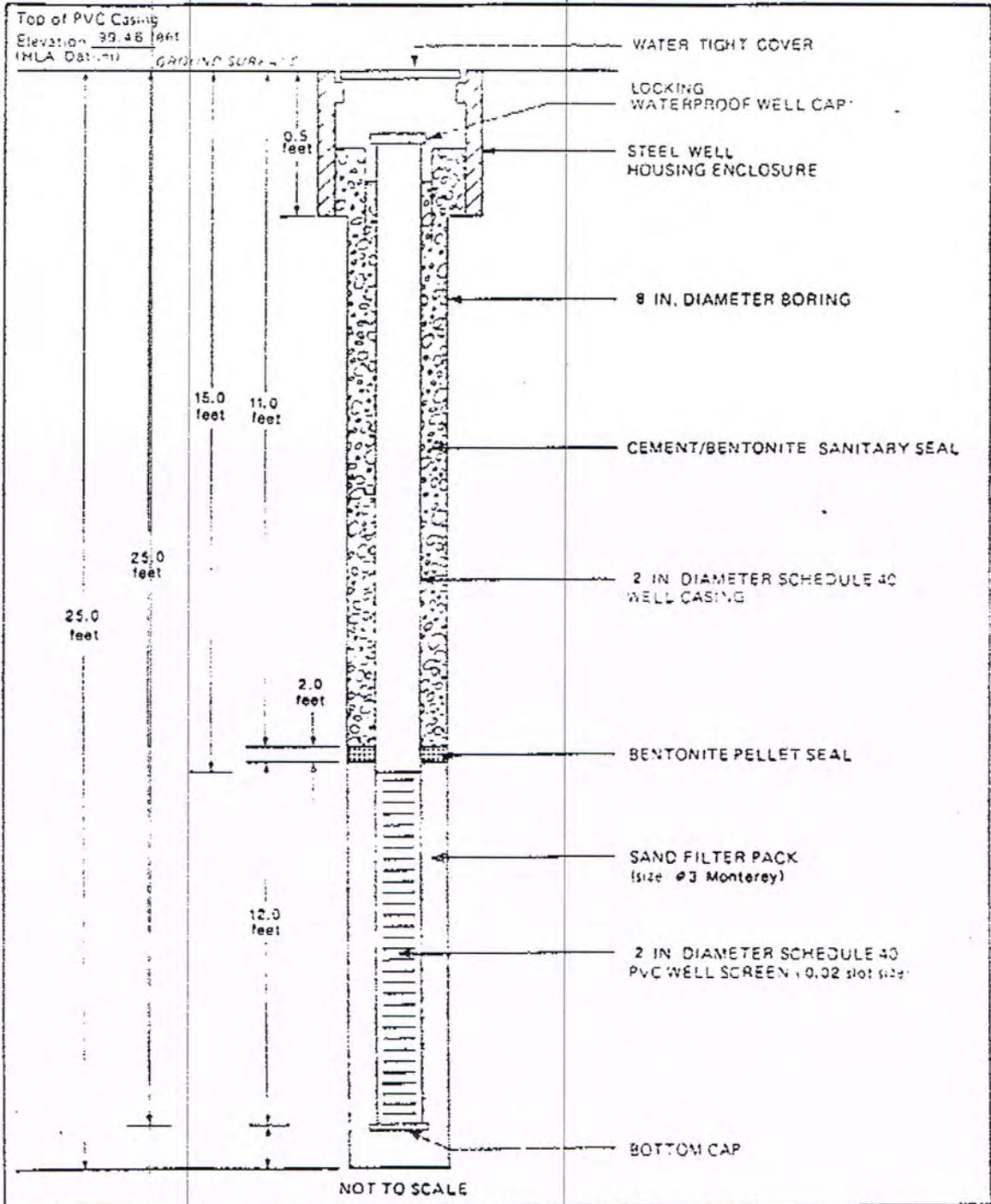
RS

251.49 14

40

7/88

000035160



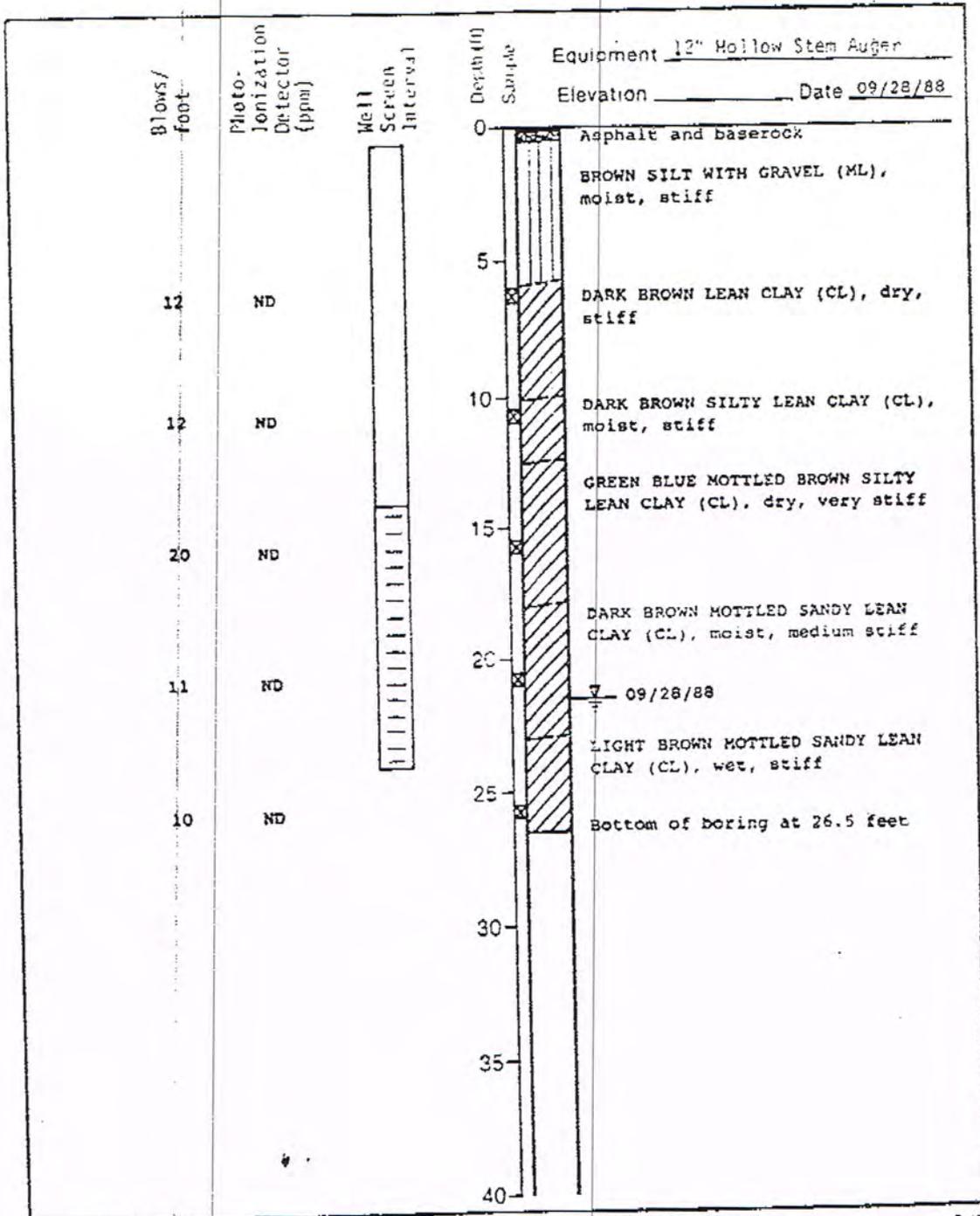
**HLA** **Harding Lawson Associates**  
 Engineers, Geologists  
 & Geophysicists

**Monitoring Well MW-3C**  
**Completion Detail**  
 Texaco Station - 6248800055  
 23990 Hesperian Boulevard  
 Hayward, California

9

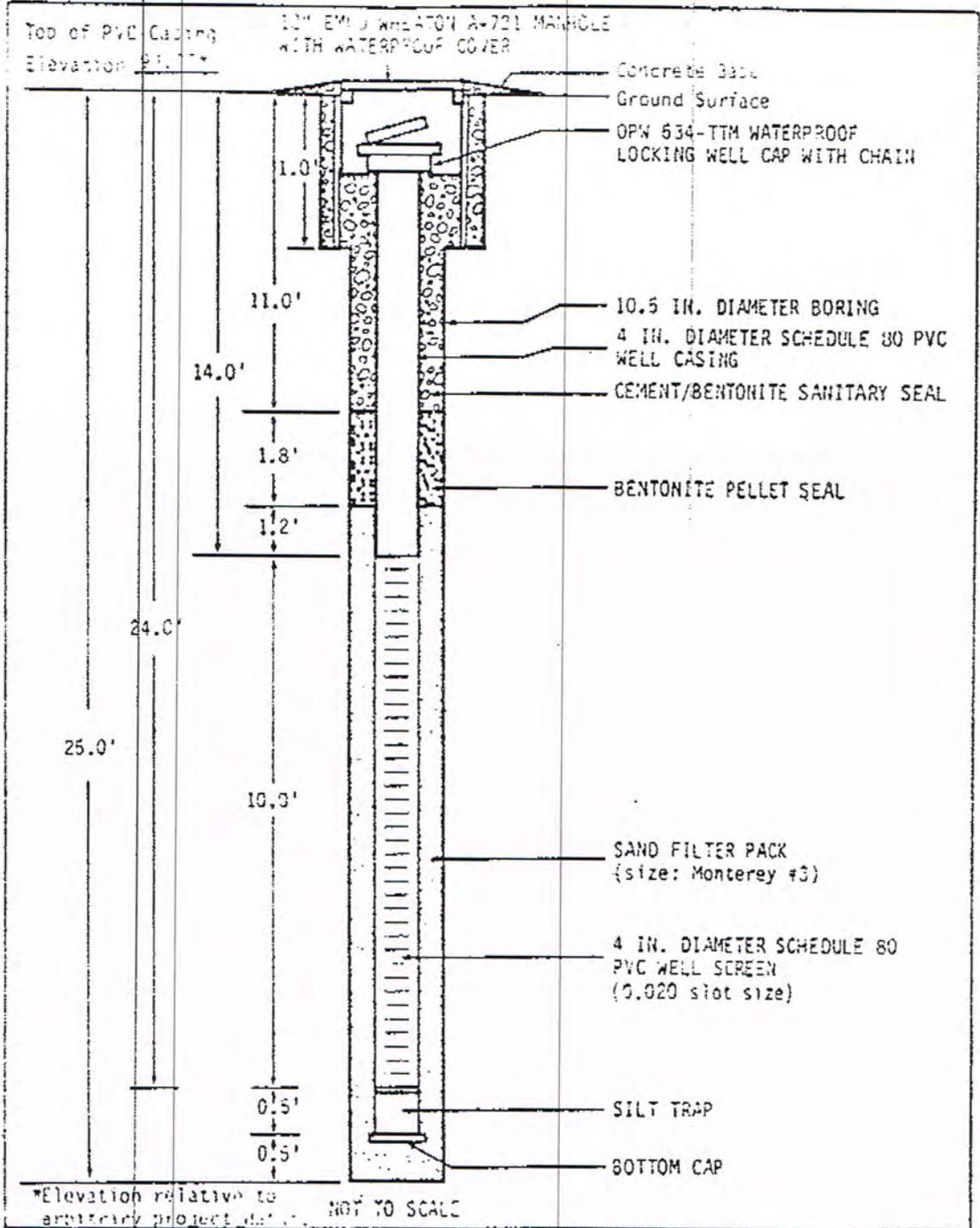
DATE: 08/11/04  
 DRAWN BY: JSC  
 CHECKED BY: JSC  
 SCALE: AS SHOWN

000035163



**Harding Lawson Associates**  
 Engineers and Geoscientists  
**Log of Boring MW-3D**  
 Former Texaco Station  
 23990 Hesperian Boulevard  
 Hayward, California  
 PLATE **11**  
 DRAWN YC  
 2251,078.03  
 3/89  
 000035147

105548



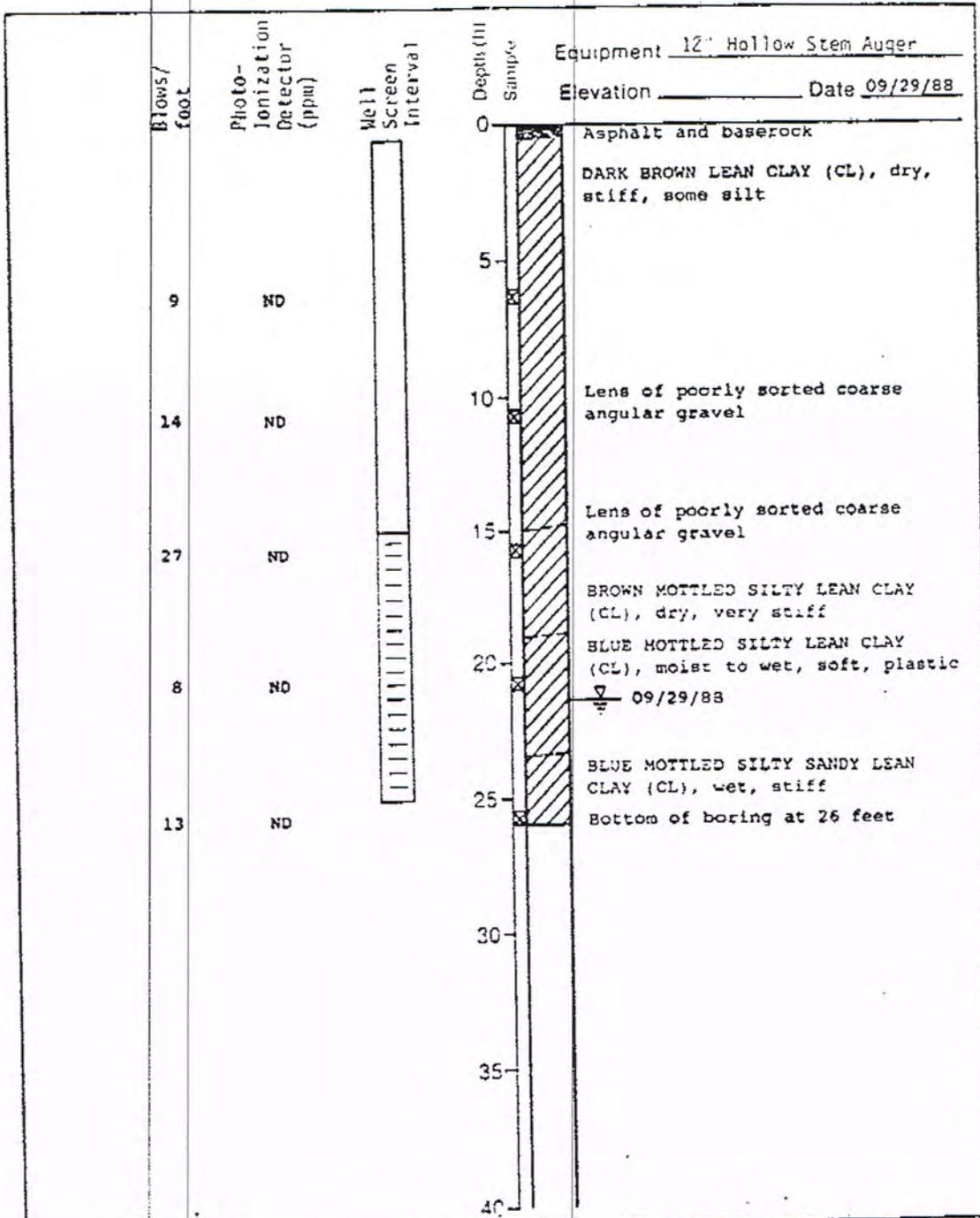
Harding Lawson Associates  
 Engineers and Geologists

Well Completion Diagram MW-3D  
 Former Texaco Station  
 23990 Hesperian Boulevard  
 Hayward, California

PLATE  
**16**

DATE	DESCRIPTION	BY	DATE
YC	2251,07,03	YLS	3/89

000035152



Harding Lawson Associates  
 Engineers and Geologists

Log of Boring MW-3C  
 Former Texas Station  
 2370 Mesquite Boulevard  
 Houston, Texas 77057

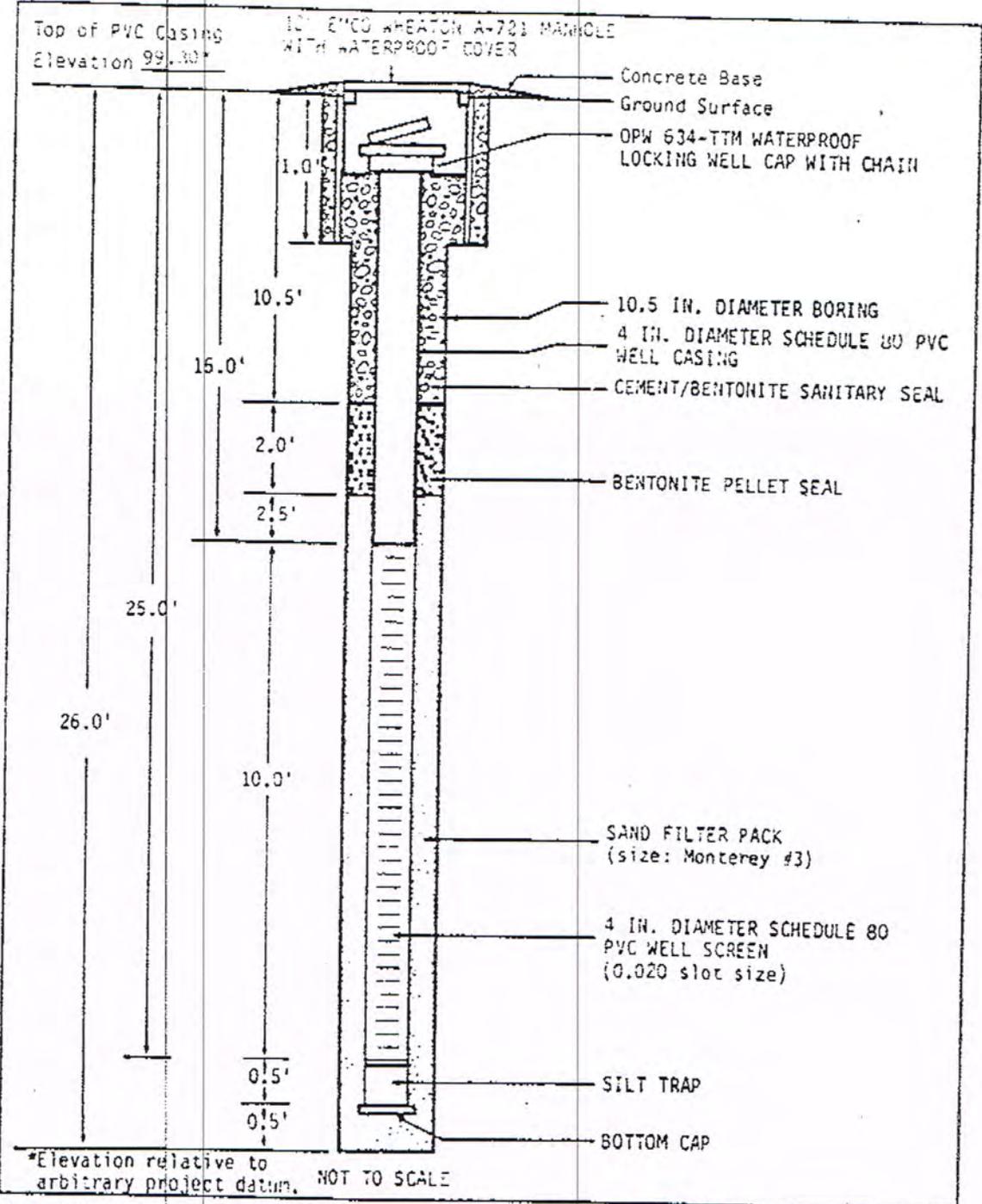
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Drawn  
 YC

2000.07.08

000035148

105649



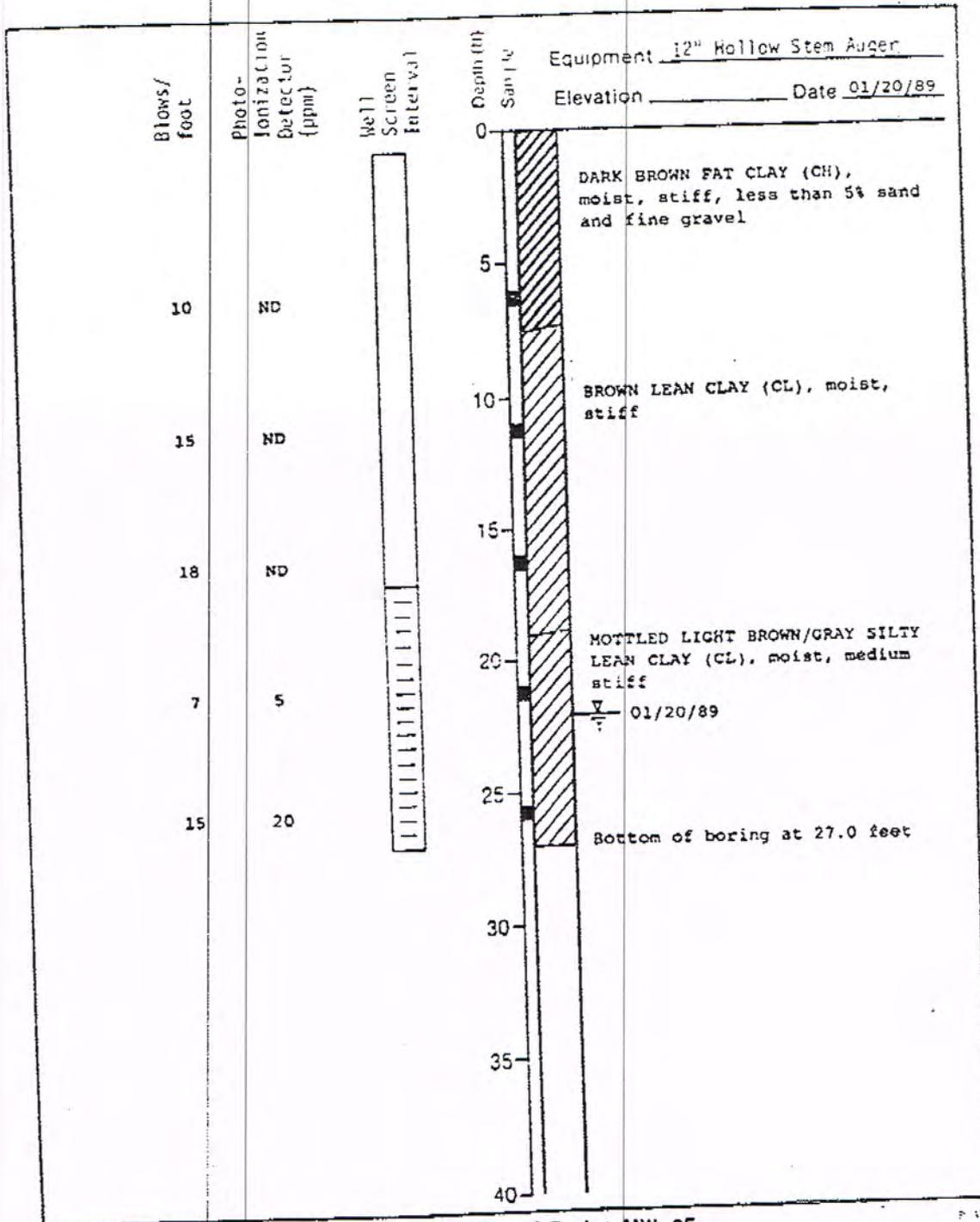
**Harding Lawson Associates**  
Engineers and Geoscientists

**Well Completion Diagram MW-3E**  
Former Texaco Station  
13990 Hesperian Boulevard  
Hayward, California

PLATE  
**17**

DATE	JOB NUMBER	PROJECT	DATE
YC	2251.07.03	W.D.	

000035153

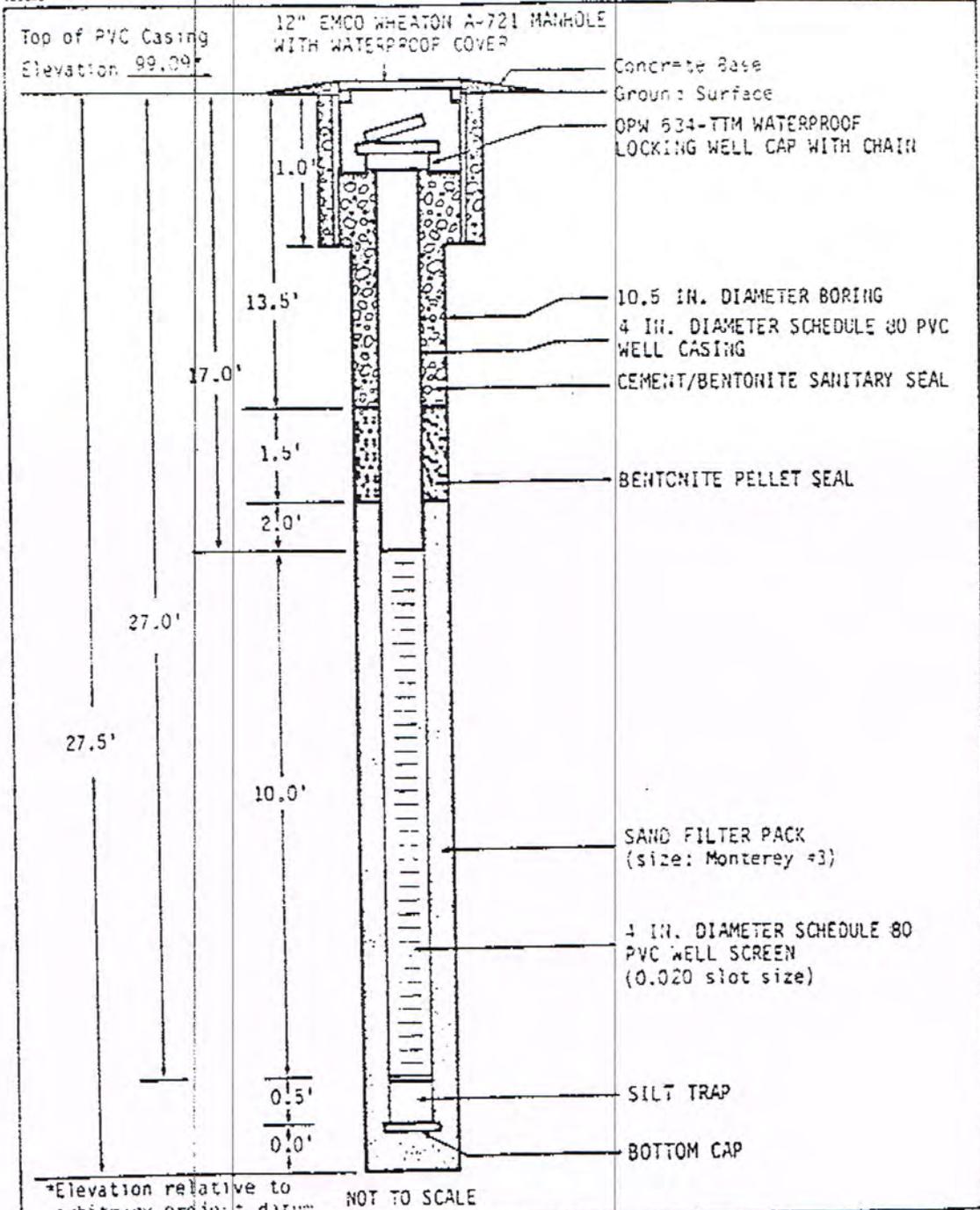


**Harding Lawson Associates**  
 Engineers and Geoscientists  
**Log of Boring MW-3F**  
 Former Texaco Station  
 23400 Piedmont Boulevard  
 Hayward, California

13

2051,373.03      9/5/2      3.89      000035149

105848



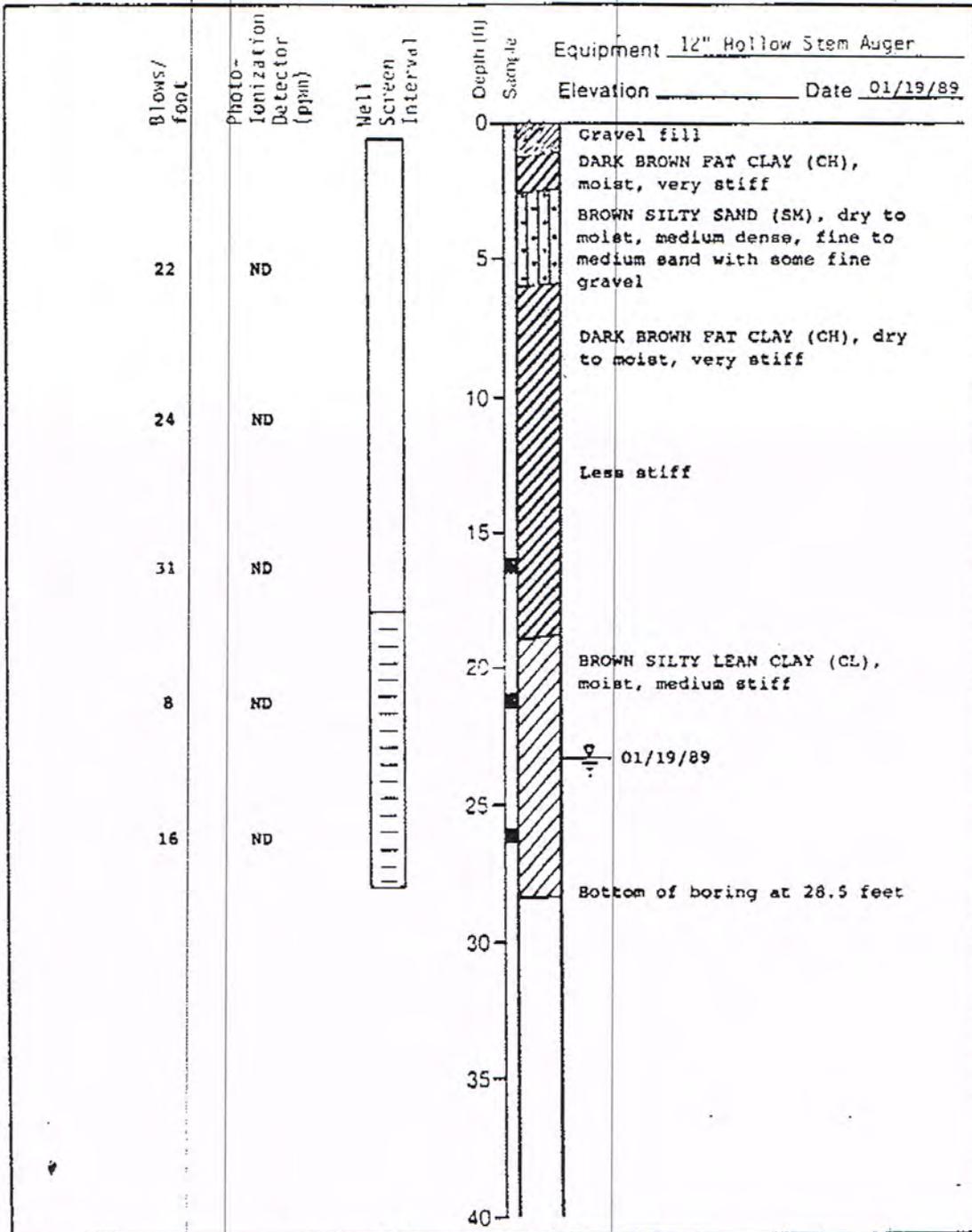
Harding Lawson Associates  
2251, 079, 03

Well Completion Diagram MW-3F  
Former Texaco Station  
2251 Hesperian Boulevard  
Hayward, California

DATE  
**18**

NO.	DATE	BY	REVISION	DATE
YC	02/11/03	VDJ	3	03

000035154



**Harding Lawson Associates**  
Engineers and Geoscientists

**Log of Boring MW-3G**  
Former Texaco Station  
23990 Hesperian Boulevard  
Hayward, California

PLATE

**14**

DATE: 01/19/89  
TIME: 10:00 AM  
BY: JBS  
NO. OF SAMPLES: 10  
TOTAL DEPTH: 28.5 FT  
ELEVATION: 1078.03

- 000035150

105649

Top of P.V.C. Casing  
Elevation 93.50'

10" EMCO WHEATON W-201 WATERPROOF  
WITH WATERPROOF COVER

Concrete Base  
Ground Surface  
OPW 634-TTM WATERPROOF  
LOCKING WELL CAP WITH CHAIN

1.0'

14.5'

13.0'

1.5'

2.0'

28.0'

29.5'

10.0'

0.5'

0.0'

10.5 IN. DIAMETER BORING  
4 IN. DIAMETER SCHEDULE 80  
WELL CASING  
CEMENT/BENTONITE SANITARY SEAL

BENTONITE PELLET SEAL

SAND FILTER PACK  
(size: Monterey #3)

4 IN. DIAMETER SCHEDULE 80  
PVC WELL SCREEN  
(0.020 slot size)

SILT TRAP

BOTTOM CAP

Elevation relative to  
arbitrary project datum

NOT TO SCALE



Harding Lawson Associates  
23400 Respertan Boulevard  
Houston, Texas 77058

Well Completion Diagram MW-3G  
Former Texaco Station  
23400 Respertan Boulevard  
Houston, Texas 77058

19

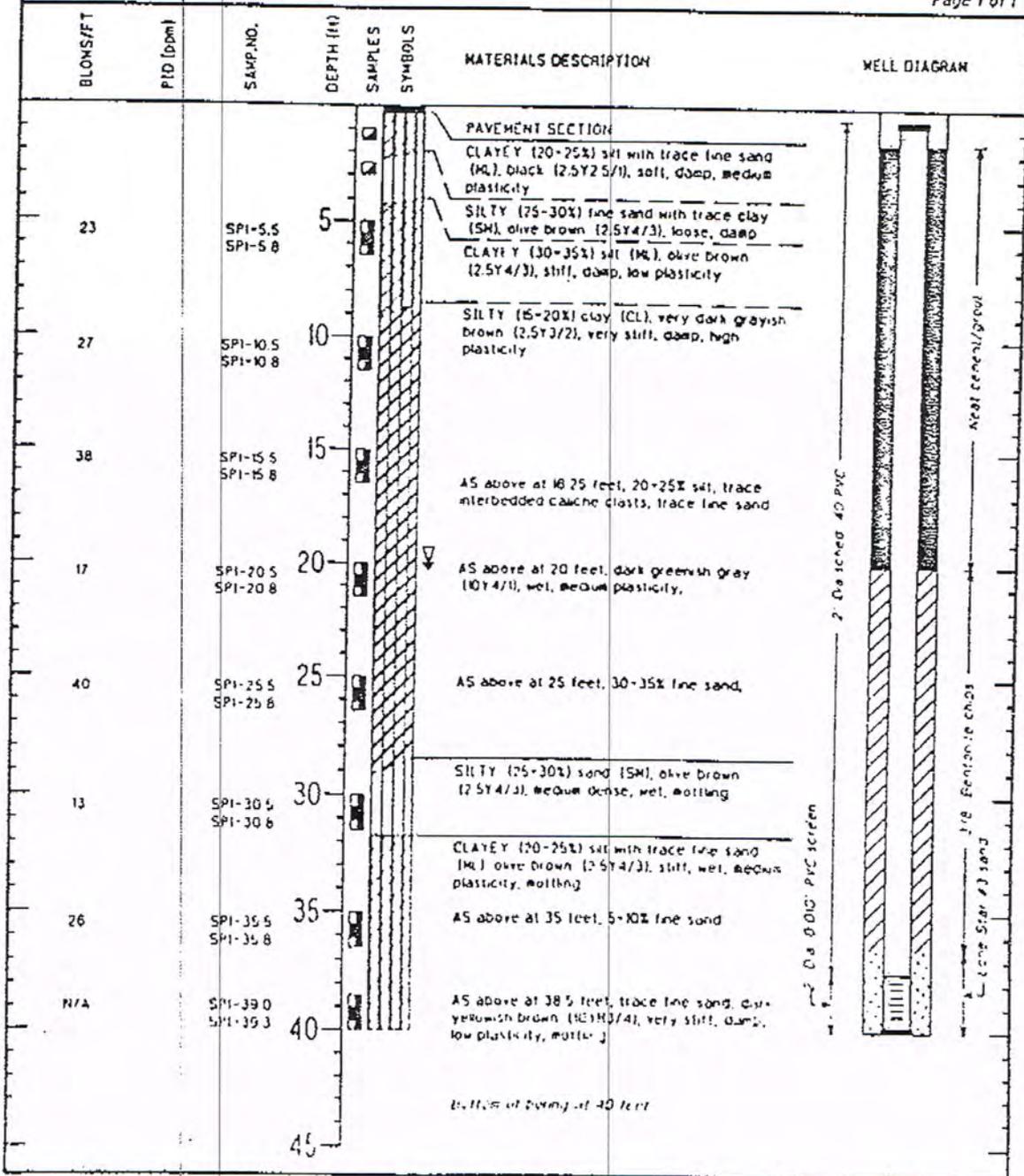
Y

02/10/11

VDA

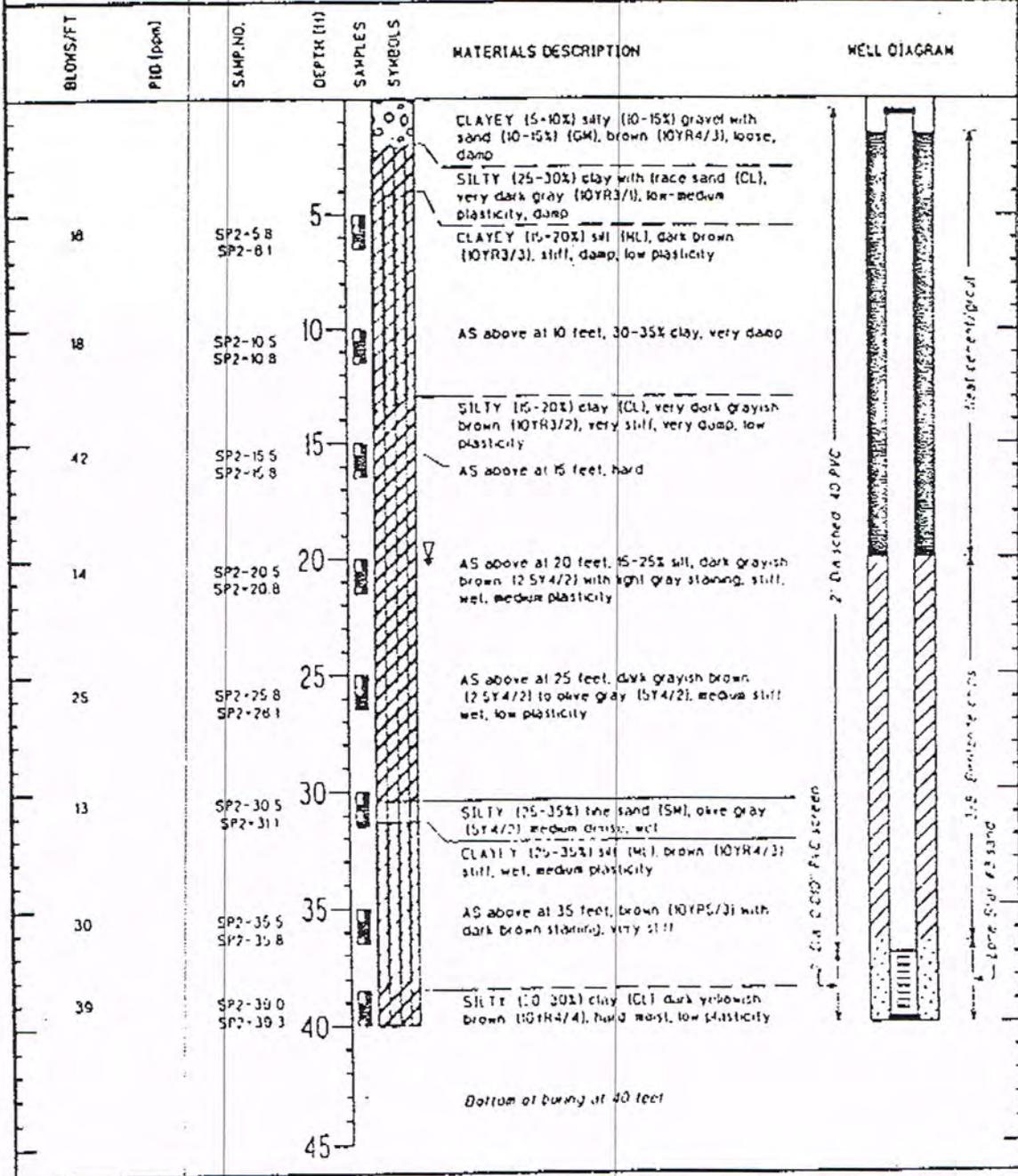
3 40

000035155



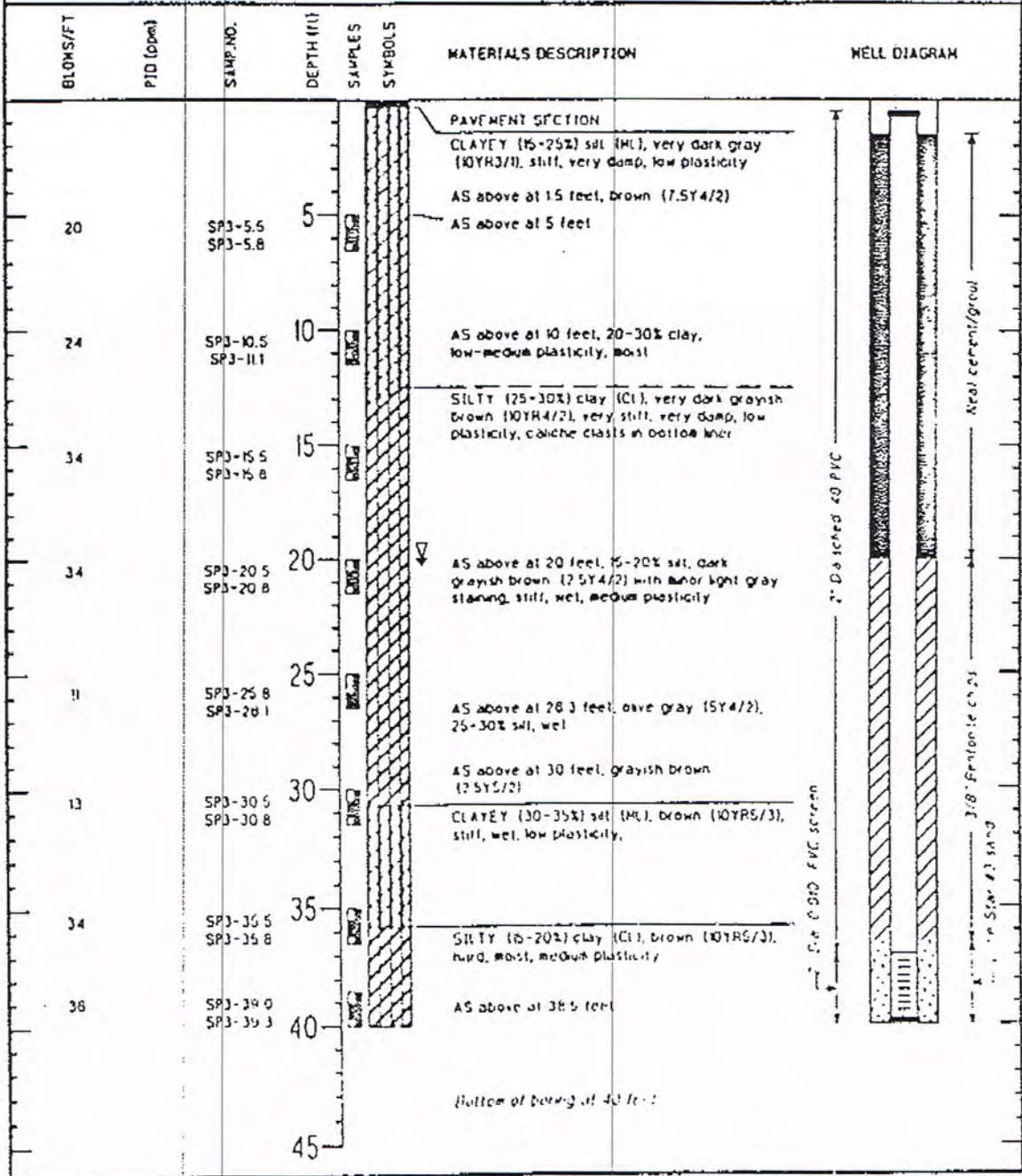
PROJECT	_____	DRILLING COMPANY	_____
LOCATION	_____	DATE DRILLED	_____
JOB NUMBER	_____	SURFACE ELEVATION	_____
GEOLOGIST	_____	TOTAL DEPTH OF HOLE	_____
DRILL RIG	_____	FIRST OBSERVED L.W.	_____

000042586



PROJECT	_____	DRILLING COMPANY	_____
LOCATION	_____	DATE DRILLED	_____
JOB NUMBER	_____	SURFACE ELEVATION	_____
GEOLOGIST	_____	TOTAL DEPTH OF HOLE	_____
DRILL RIG	_____	FIRST OBSERVED GW	_____

000042587



PROJECT	Terra Vac	DRILLING COMPANY	WEST HAVEN DRILLING
LOCATION	23000 Highway 101, San Bruno, CA	DATE DRILLED	7/14/01
JOB NUMBER	SP3-01	SURFACE ELEVATION	101.00
GEOLOGIST	Mark Henderson	TOTAL DEPTH OF HOLE	43 feet
DRILL RIG	8 in. dia. rig	FINISH GRADE	101.00

000042588

# DRILL HOLE LOG

## BORING NO. B1

PROJECT: Proposed Taco Bell #06-1052 - Hayward  
 CLIENT: Taco Bell Corporation  
 LOCATION: Hesperian Boulevard and West Winton Avenue  
 DRILLER: Robert Fredericks  
 DRILL RIG: CME-55 Hollow Stem  
 DEPTH TO WATER: INITIAL: 24 feet AT COMPLETION: 20.6 feet

PROJECT NO.: 34-94-319  
 DATE: 10/28/94  
 ELEVATION: N/A  
 LOGGED BY: Dane Mathis

ELEVATION/ DEPTH	WELL DETAIL	SOIL SYMBOLS, SAMPLERS AND TEST DATA	Description	PID	Odor	PENETRATION TEST		
						DEPTH	N	CURVE
								10 30 50
0			Asphalt					
			Aggregate Base					
4-5.5		0/6 3/6 5/6	Clay (CH) - dark brown, approximately 10% silt, very plastic, fine grained sand, less than 5%.	0	No		8	
9-10.5		2/6 4/6 5/6	Some reddish - brown mottling	0	No		9	
14-15.5		3/6 5/6 10/6		0	No		16	
19-20.5		2/6 3/6 4/6	Clay (CH) - brown, some reddish mottling, very plastic, some fragments of calcium carbonate up to 2 millimeters, approximately 5% silt	0	No		7	
25			Firm soil					
			Bottom of Boring					

Boring backfilled with six sack sand cement slurry to near grade and capped with approximately six inches of asphalt patch

000043111

This information pertains only to this boring and should not be interpreted as being indicative of the site.

KRAZAN & ASSOCIATES, INC.

# DRILL HOLE LOG

BORING No. B3

PROJECT: Proposed Taco Bell #06-1052 - Hayward  
 CLIENT: Taco Bell Corporation  
 LOCATION: Hesperian Boulevard and West Winton Avenue  
 DRILLER: Robert Fredericks  
 DRILL RIG: CME-55 Hollow Stem  
 DEPTH TO WATER: INITIAL: 23 feet AT COMPLETION: 21.2 feet

PROJECT NO.: 34-94-319  
 DATE: 10/28/94  
 ELEVATION: N/A  
 LOGGED BY: Dane Mathis

ELEVATION/ DEPTH	WELL DETAIL	SOIL SYMBOLS, SAMPLERS AND TEST DATA	Description	PID	Odor	PENETRATION TEST		
						DEPTH	N	CURVE
0			Asphalt					
			Aggregate Base					
			Clay (CH), brown - dark brown, 10% very fine silts, very plastic, less than 5% fine sands.					
4-5.5		2/6 2/6 -7/6	Sandy Silt (ML) - brown, approximately 15% fine to medium sands, slightly plastic.	0	No	4-5.5	6	
9-10.5		2/6 2/6 -7/6	Silty Clay (MH) - brown, approximately 10% silts, very plastic, some calcium carbonate fragments up to millimeter	0	No	9-10.5	8	
14-15.5		2/6 2/6 -7/6	Clay (CH), brown - dark brown, 10% silts very plastic, some reddish - brown mottling	0	No	14-15.5	13	
19-20.5		2/6 3-6 -7/6	Some fine black (organic) layers up to 0.5 millimeters.	0	No	19-20.5	7	
25			Firm soil					
			Bottom of Boring					

Boring backfilled with six sack sand cement slurry to near grade and capped with approximately six inches of asphalt patch

000043112

This information pertains only to the boring and shall not be interpreted as being indicative of the site.

KPAZAN & ASSOCIATES, INC.

# DRILL HOLE LOG

BORING NO. B1

PROJECT: Proposed Taco Bell #06-1052 - Hayward  
 CLIENT: Taco Bell Corporation  
 LOCATION: Hesperian Boulevard and West Winton Avenue  
 DRILLER: Robert Fredericks  
 DRILL RIG: CME-55 Hollow Stem  
 DEPTH TO WATER: INITIAL: N/A

PROJECT NO.: 34-94-319  
 DATE: 10/28/94  
 ELEVATION: N/A  
 LOGGED BY: Dane Mathis

AT COMPLETION: 21.5 feet

ELEVATION/ DEPTH	WELL DETAIL	SOIL SYMBOLS, SAMPLERS AND TEST DATA	Description	PID	Coar	PENETRATION TEST		
						DEPTH	N	CURVE
0			Fill, Silty Sand, brown - dark brown.					
5		2/6 7/6 8/6	Silty Sand (SM) - brown, approximately 20% silt, slightly plastic, very fine to fine grained sand.	0	No	4-5.5	10	
10		2/6 10/6	Clay/Silty Clay (CL), brown - reddish brown, approximately 10% silts, medium plasticity. Some dark mottling.	0	No	9-10.5	17	
15		2/6 7/6 13/6	Clay (CH) brown, dark brown - reddish mottling, dark organic lenses, very plastic.	0	No	14-15.5	20	
20		2/6 11/6 9/6		0	Slight	19-20.5	10	
25			Bottom of Boring					

Boring backfilled with six sack sand cement slurry to near grade

000043113

This information pertains only to this boring and should not be interpreted as being indicative of the site.

KRAZAN & ASSOCIATES, INC.

# DRILL HOLE LOG

BORING NO.: HA-1

PROJECT: Proposed Taco Bell #06-1052 - Hayward  
 CLIENT: Taco Bell Corporation  
 LOCATION: Hesperian Boulevard and West Winton Avenue  
 DRILLER: Dane Mathis  
 DRILL RIG: Hand Auger  
 DEPTH TO WATER: INITIAL: N/A

PROJECT NO.: 34-94-319  
 DATE: 10/28/94  
 ELEVATION: N/A  
 LOGGED BY: Dane Mathis

AT COMPLETION: N/A

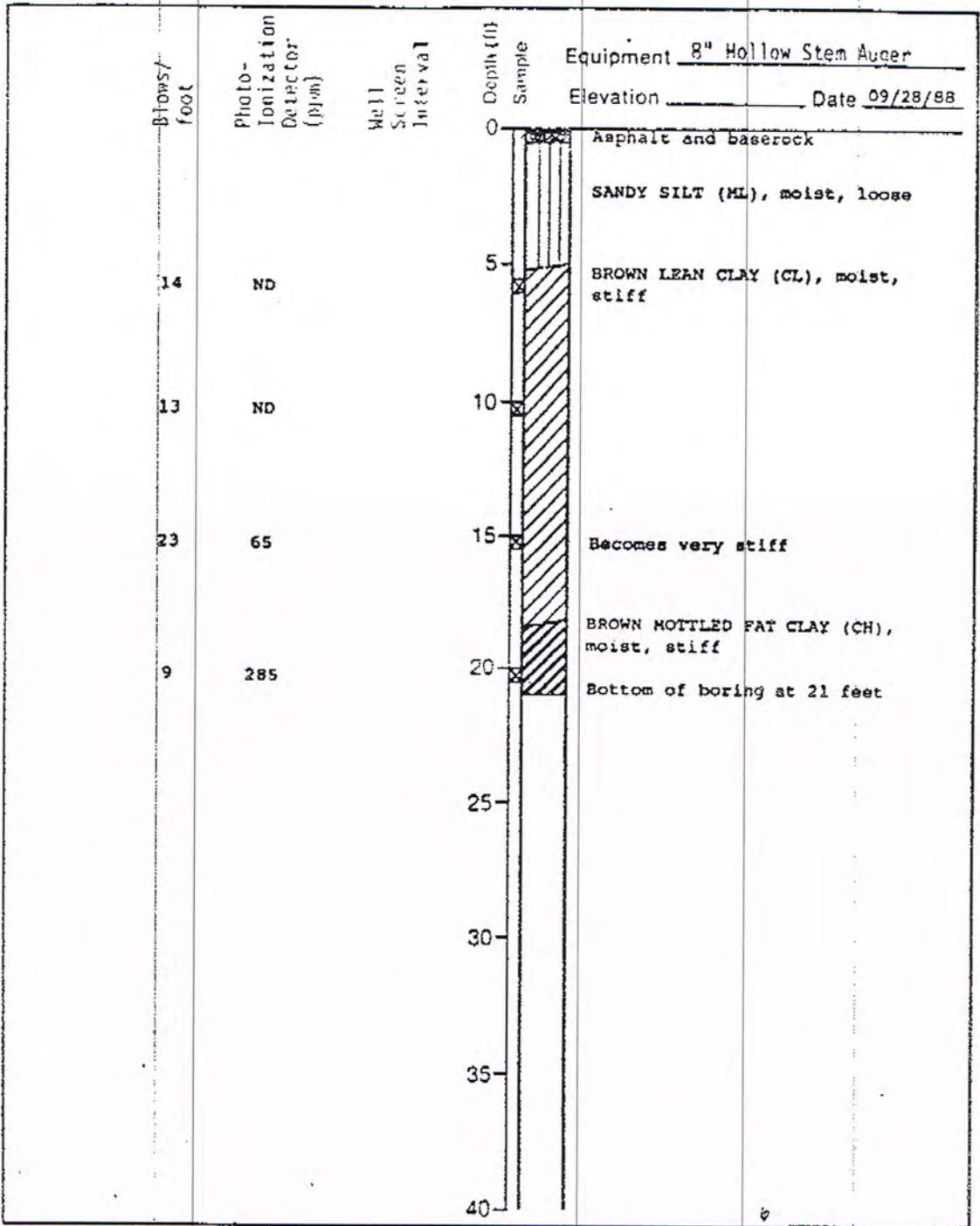
ELEVATION/ DEPTH	WELL DETAIL	SOIL SYMBOLS, SAMPLERS AND TEST DATA	Description	PID	Odor	PENETRATION TEST														
						DEPTH	CURVE													
							10	30	50											
0			Fill, Silty Sand, brown - dark brown.																	
5			Sandy Silt (ML) - brown, approximately 15% very fine to fine grained sand. Slightly plastic.	0	No															
10			Silty Clay (CL) - brown, approximately 10% silts, medium plasticity.	0	No															
			Bottom of Boring																	

Boring backfilled with six sack sand cement slurry to near grade

000043114

This information pertains only to this boring and should not be interpreted as being indicative of the site.

KRAZAN & ASSOCIATES, INC.



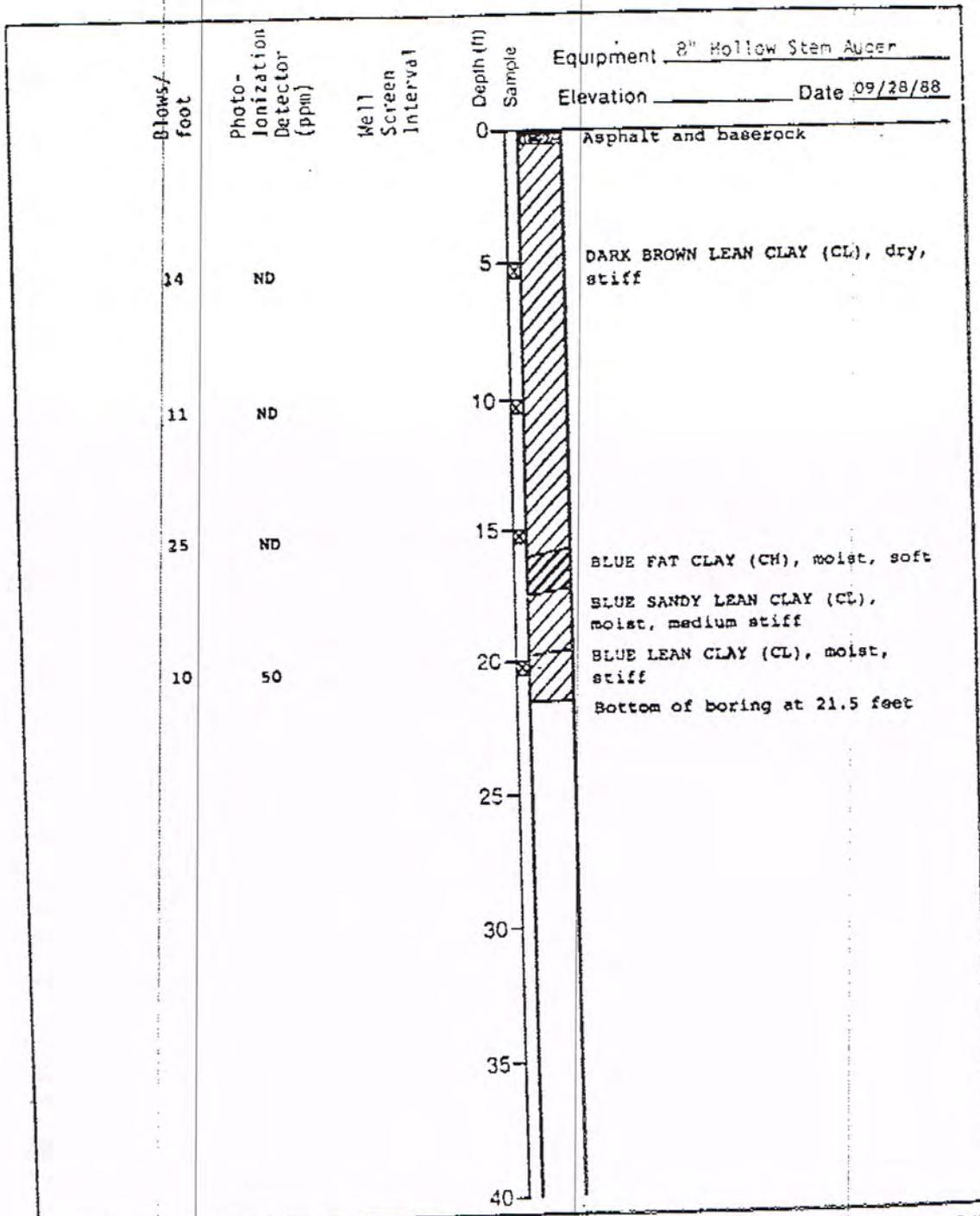
**Harding Lawson Associates**  
 Engineers and Geoscientists

**Log of Boring B-1**  
 Former Texaco Station  
 23990 Hesperian Boulevard  
 Hayward, California

PLATE  
**5**

DATE	JOB NUMBER	APPROVED	SCALE	REVISION	DATE
YC	2251,078.03	<i>V.D.J.</i>	3" = 10'		

000035141



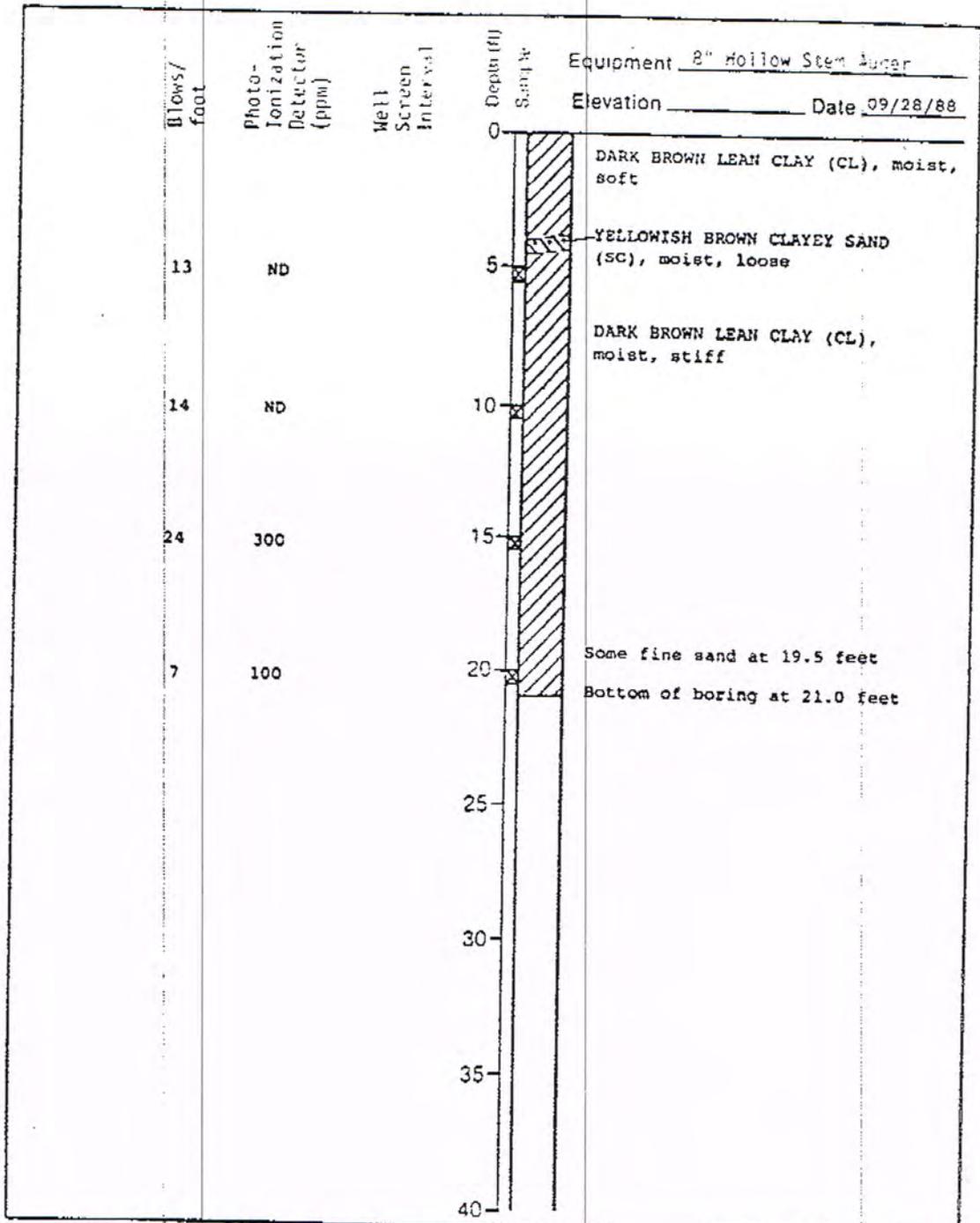

**Harding Lawson Associates**  
 Engineers and Geoscientists

**Log of Boring B-2**  
 Former Texaco Station  
 23990 Hesperian Boulevard  
 Hayward, California

6

DRAWN: YC  
 CHECKED: [Signature]  
 DATE: 10/28/88

000035142



Equipment 8" Hollow Stem Auger  
 Elevation \_\_\_\_\_ Date 09/28/88

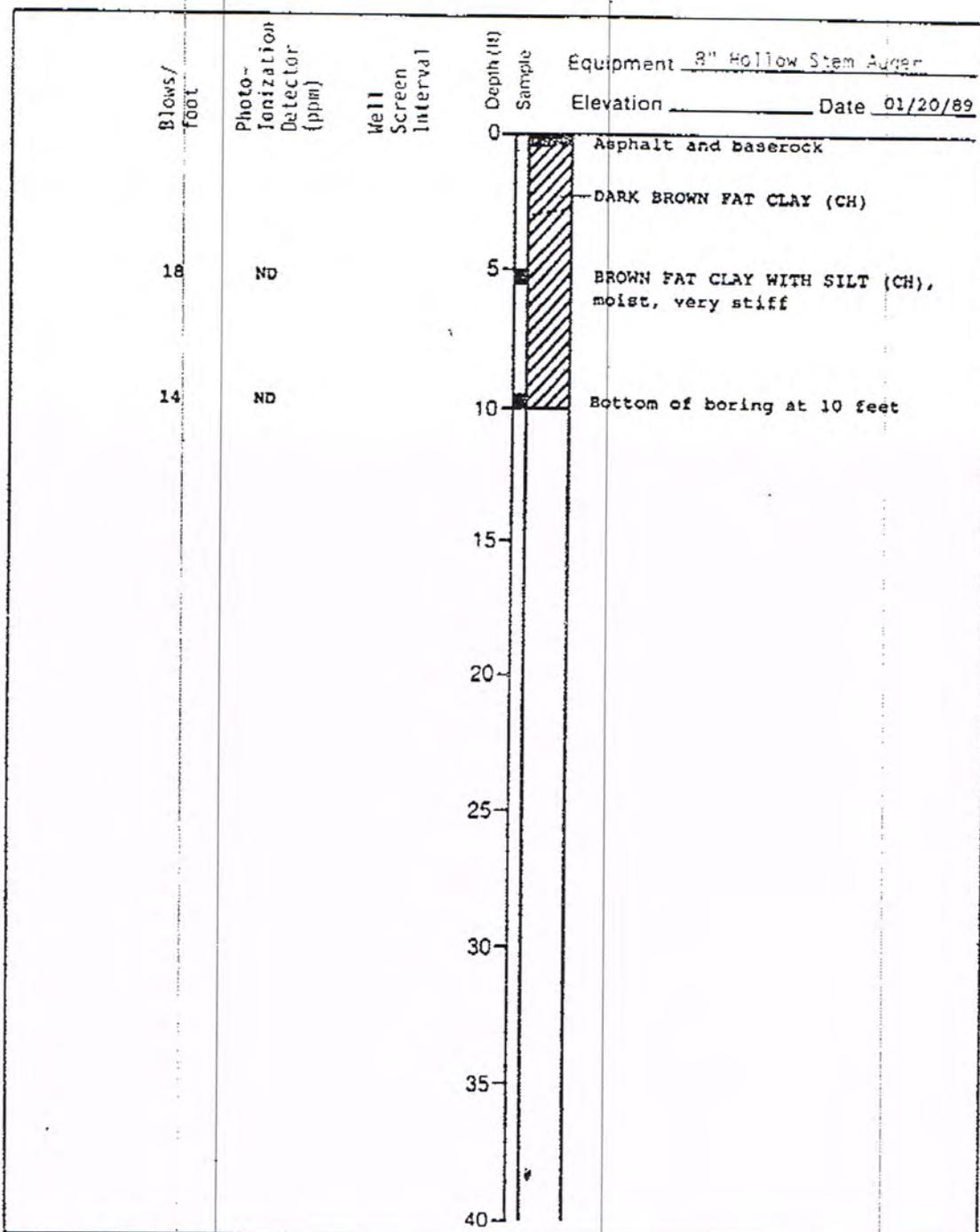
 **Harding Lawson Associates**  
 Engineers and Geoscientists

**Log of Boring B-3**  
 Former Texaco Station  
 22990 Hesperian Boulevard  
 Hayward, California

PLAT  
**7**

DATE: 09/28/88  
 DRAWN BY: YC  
 CHECKED BY: VSA  
 SCALE: 3/89

000035143



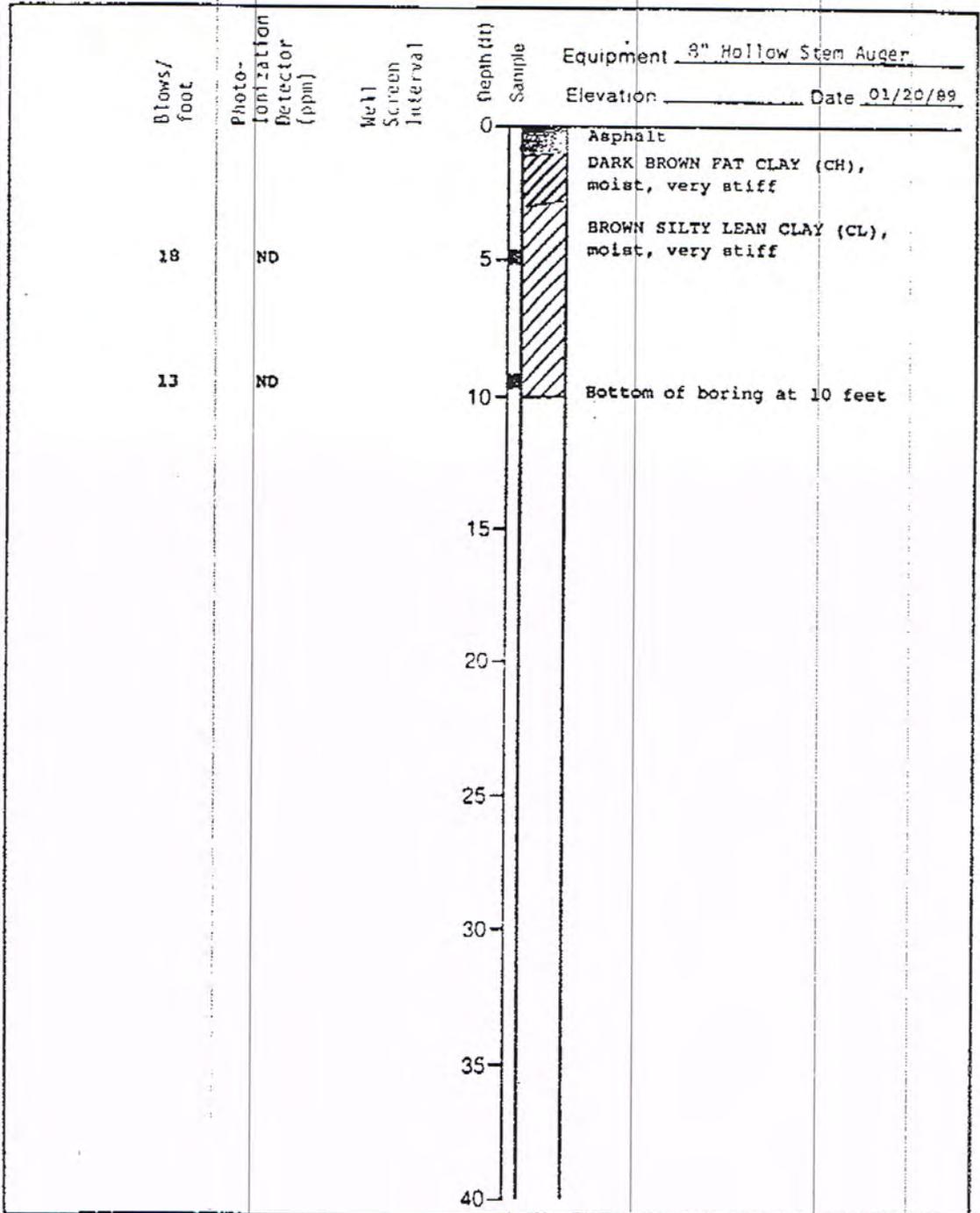
Harding Lawson Associates  
Engineers and Geoscientists

Log of Boring B-4  
Former Texaco Station  
23990 Hesperian Boulevard  
Hayward, California

PLATE  
**8**

DRAWN: YC      JOB NO.: 2251.079.03      DATE: 3/89  
 CHECKED: JBA      REVISED:

000035144



**Harding Lawson Associates**  
Engineers and Geoscientists

**Log of Boring B-5**  
Former Texaco Station  
23990 Hesperian Boulevard  
Hayward, California

PLATE  
**9**

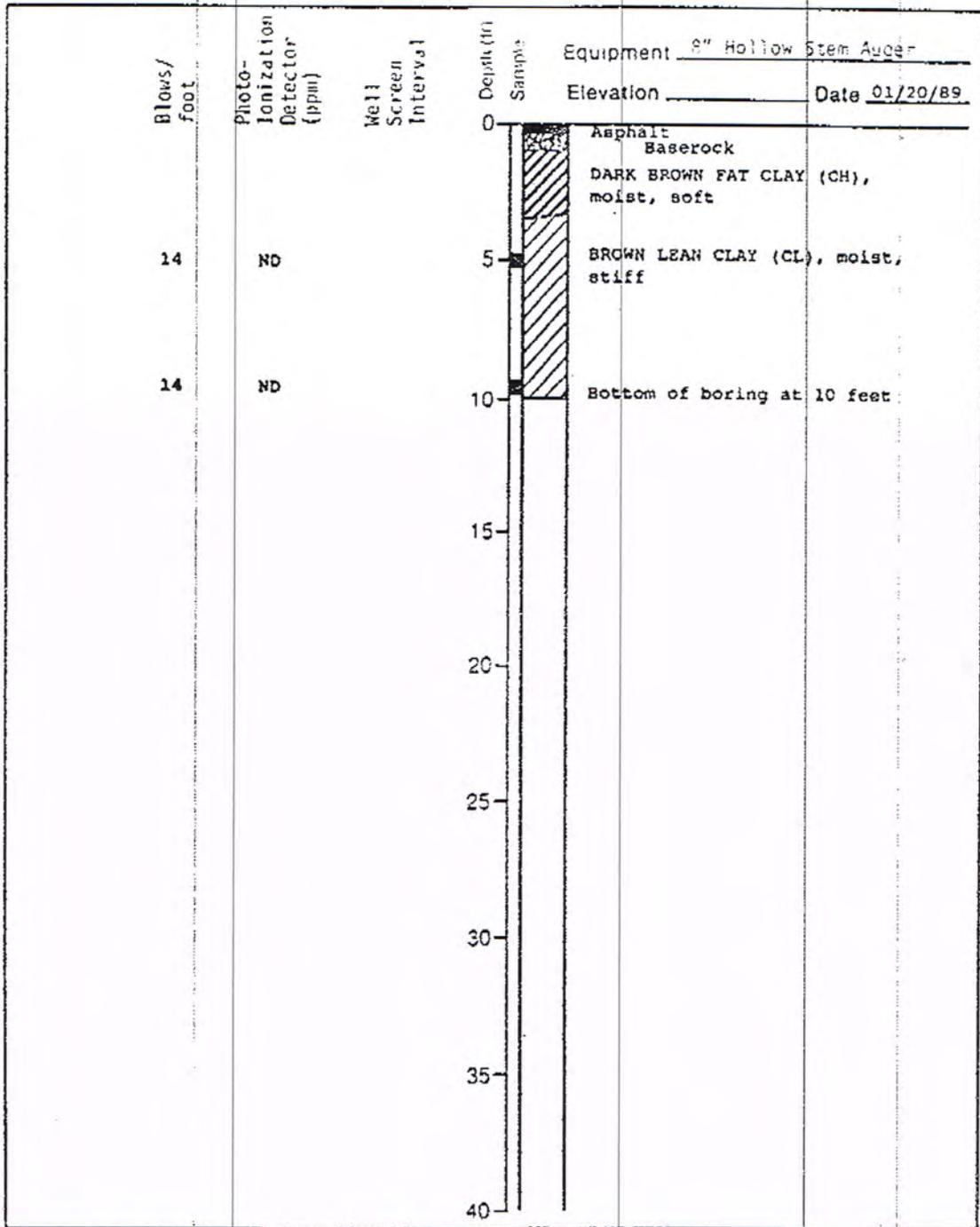
DRAWN  
YC

DATE  
2251,073,03

BY  
J. D. J.

DATE  
3/7/89

000035145



**Harding Lawson Associates**  
Engineers and Geoscientists

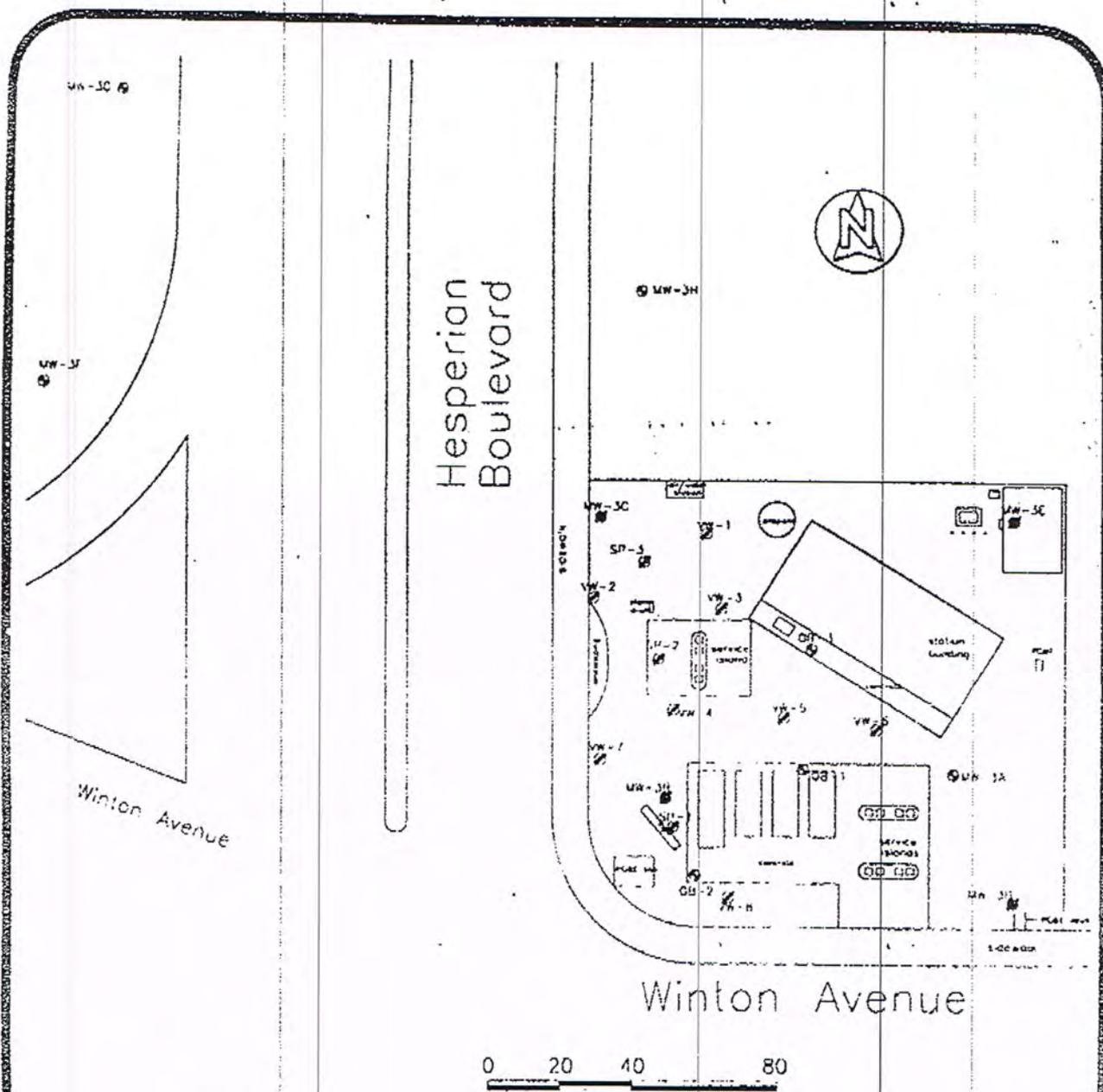
**Log of Boring B-6**  
Former Texaco Station  
23990 Hesperian Boulevard  
Hayward, California

PLATE  
**10**

DRAWN: YC      JOB NUMBER: 2251,073.03      DATE: 3/89

000035146

**APPENDIX D**  
**WELL LOCATIONS MAP**



**LEGEND**

- MW-3A monitoring well
- VW-1 entrainment extraction well
- SP-1 sparge well
- / well to be abandoned

Site Map  
former Texaco Service Station  
23990 Hesperian Boulevard  
Hayward, California

Project	30-0113	Drawn	JIN
Date	6/14/96	Revision	1
Scale	1"=40'	Checked	

**TERRA** 1851 Alvarado Street  
VAC San Leandro, CA 94577  
(415) 591-8900 Fax (415) 591-8901

Figure  
1

**APPENDIX E**  
**SENSITIVE RECEPTOR SURVEY**

Attachment A to Environmental Testing Procedures  
 SENSITIVE RECEPTORS - SITE INVESTIGATION AND RISK ASSESSMENT

Location #: 6248800055  
 Address: 23990 Hesperian Blvd  
 City/State: Hayward CA  
 County: Alameda

I Provide answers to the following questions to the extent reasonably known:

- |    |  |       |       |
|----|--|-------|-------|
| A. | Is there a public water supply well within 2500'?  | (Y/N) | No    |
|    | If Yes, distance                                   | (FT)  | _____ |
| B. | Is there a private water supply well within 1000'? | (Y/N) | No    |
|    | If Yes, distance                                   | (FT)  | _____ |
| C. | Is there a subway within 1000'?                    | (Y/N) | No    |
|    | If Yes, distance                                   | (FT)  | _____ |
| D. | Is there a basement within 500'?                   | (Y/N) | No    |
|    | If Yes, distance                                   | (FT)  | _____ |
| E. | Is there a school within 1000'?                    | (Y/N) | No    |
|    | If Yes, distance                                   | (FT)  | _____ |
| F. | Is there a surface body of water within 500'?      | (Y/N) | No    |
|    | (i.e., lake, river, ocean)      If Yes, distance   | (FT)  | _____ |

II Describe type of local water supply:

- |                                     |                     |       |
|-------------------------------------|---------------------|-------|
|                                     | Public              | X     |
| * Hayward Water Company             | - Suppliers' Name   | *     |
| ** Hetch Hetchy Reservoir           | - Suppliers' Source | **    |
| *** 150 miles east of San Francisco | - Distance to Site  | ***   |
|                                     | Private             | _____ |

III Aquifer Classification, if available:

- |           |  |       |
|-----------|--|-------|
| Class I   | - Special Ground Waters                        | _____ |
|           | - Irreplaceable Drinking Water Source          | _____ |
|           | - Ecologically Vital                           | _____ |
| Class II  | - Current and Potential Drinking Water Sources | X     |
| Class III | - Not Potential Source of Drinking Water       | _____ |

IV Describe observation wells, if any:

Number	3
Free Product (Y/N)	No

V Provide a site diagram or a local/topographic (USGS) map of the area.

VI Report should consist of this fact sheet, the site or area map, and a cover letter.

VII Signature of Preparer: \_\_\_\_\_ Date: 5/24/82

000035157

**APPENDIX F**  
**SITE CLOSURE SUMMARY FORM**

## SITE CLOSURE SUMMARY

### I. AGENCY INFORMATION

Date: November 8, 2000

Agency Name:	S.F.B.R.W.Q.C.B.	Address:	1515 Clay Street, Suite 1400
City/State/Zip:	Oakland, CA 94612	Phone:	(510) 622-2433
Responsible Staff Person:	Mr. Stephen Hill	Title:	Environmental Specialist

### II. SITE INFORMATION

Site Facility Name:		Former Exxon Service Station 7-0218		
Site Facility Address:		23990 Hesperian Boulevard, Hayward, California		
RB LUSTIS Case No.	Local or LOP Case No.:	Priority:		
URF Filing Date:	SWEEPS No.:			
Responsible Parties (include addresses and phone numbers)				
Mr. Darin L. Rouse		(925) 246-8768		
ExxonMobil Refining and Supply				
P.O. Box 4032				
Concord, California 94524-4032				
Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
	750	Used-Oil	Active	
	42,000 (total)	4 UST's (gasoline and diesel)	Active	

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown cause, unknown quantity of gasoline	
Site characterization complete? Yes	Date Approved By Oversight Agency: Unknown
Monitoring wells installed? Yes	Number: 8 Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 11.80	Lowest Depth: 22.10 Flow Direction: West
Most Sensitive Current Use: Not applicable, gasoline service station.	
Most Sensitive Potential Use: Not applicable, gasoline service station.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain Aquifer System
Is surface water affected? No	Nearest/Affected SW Name: Sulpher Creek (3,750-feet north)
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Report(s) on file? Yes	Where is report(s) filed? City of Hayward, Fire Department

#### TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	550-gallon used-oil	Disposed at Erickson Inc., Richmond	January 1997
Piping	Product piping		August-September 1996
Free Product	None		
Soil	31,21 tons	Disposal, BFI Landfill, Livermore	January 1997
Groundwater	145 gallons	Treatment, Romco Environmental- East Palo Alto, CA	April 1998
Barrels			

#### MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP

POLLUTANT	Soil (ppm)		Water (ppb)		POLLUTANT	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	810	<1.0	150,000	4600	Xylene	44	<0.0050	39,000	82
TPH (Diesel)	110	12	--	--	Ethylbenzene	16	<0.0050	9,200	85
Benzene	86	<0.0050	16,000	40	Oil & Grease				
Toluene	1.3	<0.0050	33,000	4.9	Heavy Metals				
MTBE			<50	96	Other				

Comments (Depth of Remediation, etc.): Site was remediated by soil vapor-extraction (SVE) and groundwater extraction. Concentrations reached asymptotic levels. Therefore, remediation was discontinued.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?		Yes
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?		Yes
Does corrective action protect public health for current land use?		Yes
Site Management Requirements:		
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 4	Number Retained: 4
List Enforcement Actions Taken: NONE		
List Enforcement Actions Rescinded:		

**V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON**

Title: See attached listing.	Date:

**VI. ADDITIONAL COMMENTS, DATA, ETC.**

PLEASE INCLUDE/ATTACH THE FOLLOWING AS APPROPRIATE:

- 1) SITE MAP INDICATING TANK PIT LOCATION, MONITORING WELL LOCATION, GROUNDWATER GRADIENT, ETC.; AND,
- 2) SITE COMMENTS WORTHY OF NOTICE (E.G., AREA OF RESIDUAL POLLUTION LEFT IN PLACE, DEED NOTICES ETC.)

See attached site map.
------------------------

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

7218

**ExxonMobil**  
**Refining and Supply Company**  
 Downstream - Safety, Health & Environment  
 Environmental Remediation

2300 Clayton Road, Suite 1250  
 P.O. Box 4032  
 Concord, CA 94524-4032  
 (925) 246-8768 Telephone  
 (925) 246-8798 Facsimile  
 darin.l.rouse@exxon.com

Darin L. Rouse  
 Senior Engineer  
 Environmental Remediation

**ExxonMobil**  
 Refining & Supply

January 4, 2001

Mr. Hugh Murphy  
 City of Hayward Fire Department  
 777 B Street  
 Hayward, California 94541-5007

RE: **Exxon RAS #7-0218/23990** Hesperian Boulevard, Hayward, California.

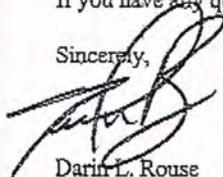
Dear Mr. Murphy:

Attached for your review and comment is a document entitled *Recommendation for Case Closure*, dated December 18, 2000, for the above referenced site. The document was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and presents the results of a municipal water supply survey and previous investigations at the site.

ExxonMobil believes that existing site conditions do not warrant additional evaluation. We respectfully request site closure based on the existing assessment data.

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

Sincerely,



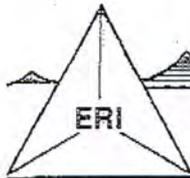
Darin L. Rouse  
 Senior Engineer

Attachment: ERI's Recommendation for Case Closure, dated December 18, 2000.

cc: w/attachment  
 Mr. Chuck Headlee, California Regional Water Quality Control Board-San Francisco Bay Region  
 Mr. Winson B. Low, Environmental and Safety Affairs Department

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



**ENVIRONMENTAL RESOLUTIONS, INC.**

December 18, 2000  
ERI 215414.R01

Mr. Darin L. Rouse  
ExxonMobil Refining and Supply  
P.O. Box 4032  
Concord, California 94524-4032

Subject: Recommendation for Case Closure, Former Exxon Service Station 7-0218,  
23990 Hesperian Boulevard, Hayward, California.

Mr. Rouse:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performs environmental activities at the subject site. ERI is submitting this report based on the results of an October 16, 2000 meeting with the California Regional Water Quality Control Board, San Francisco Bay Region (Regional Board) and the City of Hayward Fire Department (the City). This report incorporates the results of a municipal water supply well survey and previous investigations.

The site is located on the northeastern corner of Hesperian Boulevard and Winton Avenue as shown on the Site Vicinity Map (Plate 1). The locations of the station building, dispensers, underground storage tanks (USTs), and other selected site features are shown on the Generalized Site Plan (Plate 2). The surrounding area is depicted on the Extended Site Plan (Plate 3).

Currently there are five groundwater monitoring wells (MW3A, MW3B, MW3F, MW3G, and MW3H) on and in the vicinity of the site as shown on Plate 2. Based on the results of quarterly monitoring, groundwater appears to flow towards the west. A Rose Diagram depicting groundwater flow directions between first quarter 1995 and first quarter 2000 is shown on Plate 4.

#### WELL SURVEY

In October 2000, ERI performed a well survey for the subject site. The well survey included a record search of the Alameda County Department of Public Works (the County) well database.

ERI requested the County to review the files and compile a list of water supply wells within a 2,000-foot radius of the site. The County well database search revealed two water supply wells within a 2,000-foot radius of the site. The City of Hayward emergency supply well is located approximately 1,000 feet west of the site along West Winton Avenue. The water supply well data are presented in Table 1. The approximate location of the well is shown on Plate 5.

#### CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this investigation, previous investigations, and current site conditions, it is ERI's opinion that soil and groundwater conditions at this site do not warrant additional assessment or

ERI 215414.R01 Former Exxon Service Station 7-0218, Hayward, California

December 18, 2000

monitoring. ERI recommends that this case be closed and that the groundwater monitoring wells associated with this investigation be destroyed. During the October 16, 2000 meeting, the Regional Board and the City concurred with this recommendation.

An updated site closure summary form is included in Attachment A.

### LIMITATIONS

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

### DOCUMENT DISTRIBUTION

ERI recommends forwarding copies of this report to:

Mr. Hugh Murphy  
City of Hayward Fire Department  
777 B Street  
Hayward, California 94541-5007

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

Mr. Winson B. Low  
Environmental and Safety Affairs Department  
One Valero Place, MS-06E  
San Antonio, Texas 78212

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

Sincerely,  
Environmental Resolutions, Inc.



*James F. Chappell*  
James F. Chappell  
Assistant Project Manager

*John B. Bobbitt*  
John B. Bobbitt  
R.G. 4313

ERI 215414.R01 Former Exxon Service Station 7-0218, Hayward, California

December 18, 2000

- Attachments: Table 1: Well Survey Data
- Plate 1: Site Vicinity Map
  - Plate 2: Generalized Site Plan
  - Plate 3: Extended Site Plan
  - Plate 4: Groundwater Flow Direction Rose Diagram
  - Plate 5: Well Survey Map
- Attachment A: Updated Site Closure Summary Form

**TABLE 1**  
**Well Survey Data**  
 Former Exxon Service Station 7-0218  
 23990 Hesperian Boulevard  
 Hayward, California

Map ID	Well ID	Status	Location	Well Type	Use	Distance from Site
A	3S/2W20L	Active	West of site along West Winton Avenue	Emergency Supply	Municipal	1,000
B	3S/2W20L	Destroyed	North of site along Hesperian Boulevard	Water Producing	Industrial	

Notes:

- Map ID = Map Designation as shown on Plate 5.
- Well ID = Well Designation as provided by the Alameda County Department of Public Works.

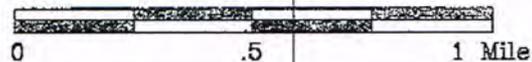
Well information provided by the Alameda County Department of Public Works.



**EXPLANATION**

 1/2-mile radius circle

**APPROXIMATE SCALE**



**SOURCE:**  
 Modified from a map  
 provided by  
 DeLorme 3-D TopoQuads



**SITE VICINITY MAP**

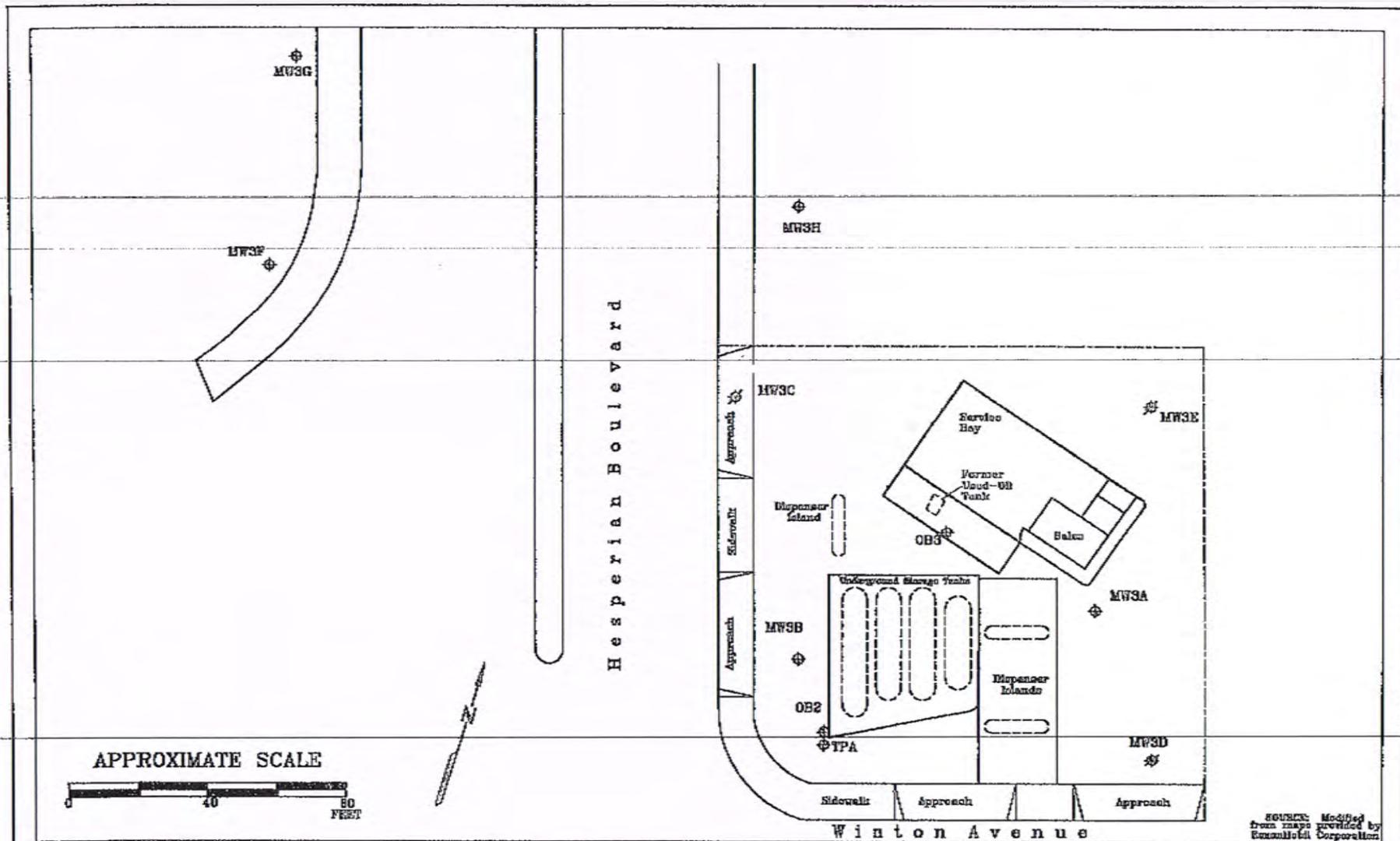
**FORMER EXXON SERVICE STATION 7-0218**  
 23990 Hesperian Boulevard  
 Hayward, California

**PROJECT NO.**

2154

**PLATE**

1



FN 21B40002

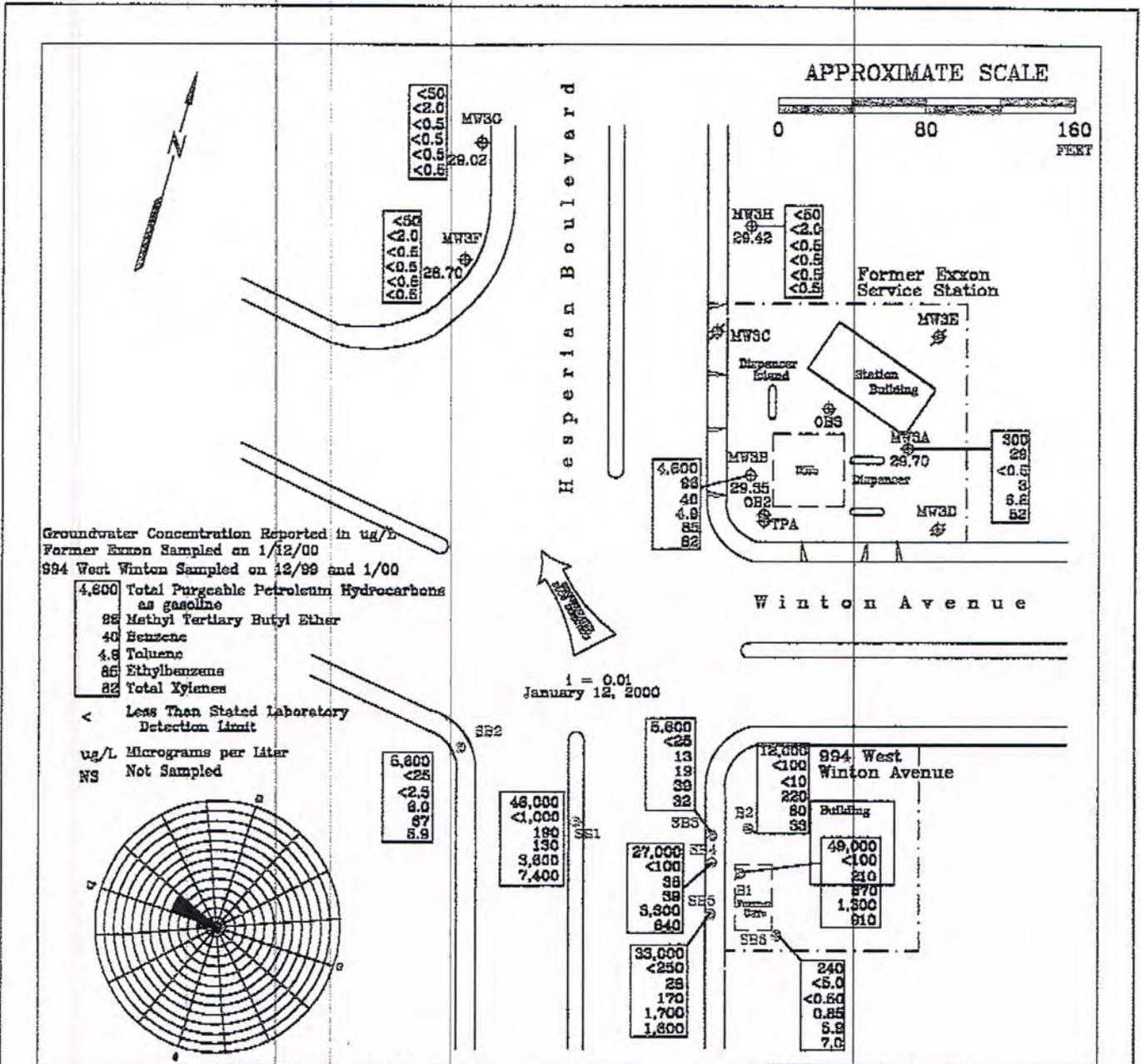


**GENERALIZED SITE PLAN**  
 FORMER  
 EXXON SERVICE STATION 7-0218  
 23980 Hesperian Boulevard  
 Hayward, California

**EXPLANATION**

MW3H	Groundwater Monitoring Well
OB2	Observation Well
MW3G	Well Destroyed

<b>PROJECT NO.</b>	2154
<b>PLATE</b>	2



2154003a

**EXPLANATION**

- MW3H Groundwater Monitoring Well
- OB2 Observation Well
- MW3E Destroyed Groundwater Monitoring Well
- SB1 Soil Boring

SOURCE:  
Modified from a map provided by Geoconsultants, Inc.



**EXTENDED SITE PLAN**

FORMER EXXON SERVICE STATION 7-0218  
23990 Hesperian Boulevard  
Hayward, California

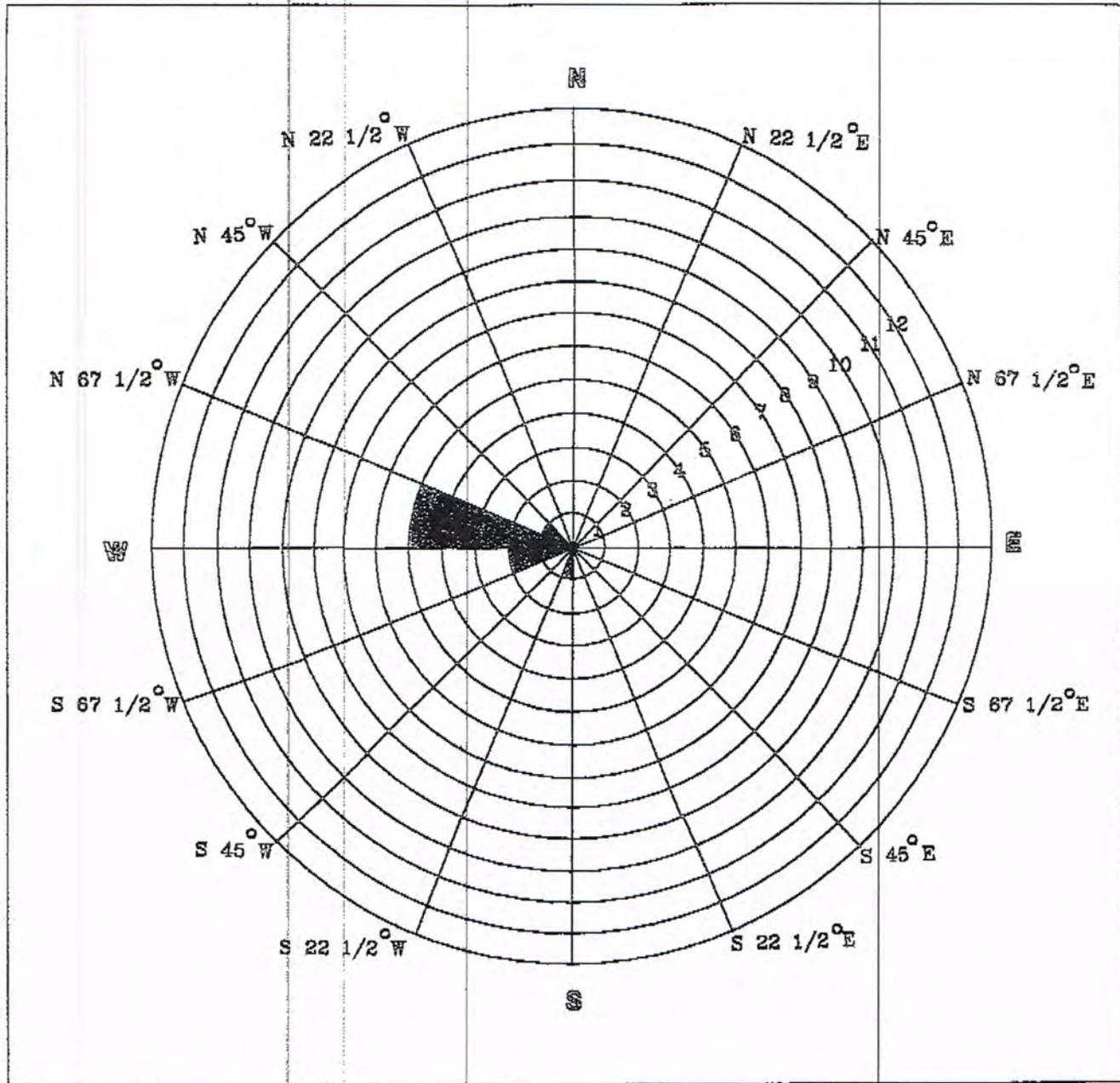
PROJECT NO.

2154

PLATE

3

Revised 12, 2000



FN 21540004

**EXPLANATION**

N Compass Direction

Rose diagram developed by evaluating the groundwater gradient direction from the quarterly monitoring data. Each shaded area on the rose diagram represents the number of monitoring events that the gradient direction plotted in that 22 1/2 degree sector. For example, five groundwater gradient directions plotted between west and north 22.5 degrees west. Therefore, the dominant groundwater gradient direction as depicted by the rose diagram is west between west and north 67.5 degrees west. Data obtained from groundwater monitoring, first quarter 1995 through first quarter 2000. (nine data points)



**GROUNDWATER FLOW DIRECTION ROSE DIAGRAM**

FORMER EXXON SERVICE STATION 7-0218  
23990 Hesperian Boulevard  
Hayward, California

PROJECT NO.

2154

PLATE

4

January 11, 2000

ATTACHMENT A  
UPDATED SITE CLOSURE SUMMARY FORM

## SITE CLOSURE SUMMARY

## I. AGENCY INFORMATION

Date: November 8, 2000

Agency Name:	S.F.B.R.W.Q.C.B.	Address:	1515 Clay Street, Suite 1400
City/State/Zip:	Oakland, CA 94612	Phone:	(510) 622-2433
Responsible Staff Person:	Mr. Stephen Hill	Title:	Environmental Specialist

## II. SITE INFORMATION

Site Facility Name:		Former Exxon Service Station 7-0218		
Site Facility Address:		23990 Hesperian Boulevard, Hayward, California		
RB LUSTIS Case No.	Local or LOP Case No.:	Priority:		
URF Filing Date:	SWEEPS No.:	01-003-		
Responsible Parties (include addresses and phone numbers)				
Mr. Darin L. Rouse		(925) 246-8768		
ExxonMobil Refining and Supply				
P.O. Box 4032				
Concord, California 94524-4032				
Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
	750	Used-Oil	Active	
	42,000 (total)	4 UST's (gasoline and diesel)	Active	

## III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown cause, unknown quantity of gasoline									
Site characterization complete? Yes				Date Approved By Oversight Agency: Unknown					
Monitoring wells installed? Yes				Number: 8		Proper screened interval? Yes			
Highest GW Depth Below Ground Surface: 11.80				Lowest Depth: 22.10		Flow Direction: West			
Most Sensitive Current Use: Not applicable, gasoline service station.									
Most Sensitive Potential Use: Not applicable, gasoline service station.									
Are drinking water wells affected? No				Aquifer Name: East Bay Plain Aquifer System					
Is surface water affected? No				Nearest/Affected SW Name: Sulpher Creek (3,750 feet North)					
Off-Site Beneficial Use Impacts (Addresses/Locations): None									
Report(s) on file? Yes				Where is report(s) filed? City of Hayward, Fire Department					
TREATMENT AND DISPOSAL OF AFFECTED MATERIAL									
Material		Amount (Include Units)		Action (Treatment or Disposal w/Destination)				Date	
Tank		550-gallon used-oil		Disposed at Erickson Inc., Richmond				January 1997	
Piping		Product piping						August-September 1996	
Free Product		None							
Soil		31.21 Tons		Disposal, BFI Landfill, Livermore				January 1997	
Groundwater		145 gallons		Treatment, Romic Environmental- East Palo Alto, CA				April 1998	
Barrels									
MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS--BEFORE AND AFTER CLEANUP									
POLLUTANT	Soil (ppm)		Water (ppb)		POLLUTANT	Soil (ppm)		Water (ppb)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	810	<1.0	150,000	4600	Xylene	44	<0.0050	39,000	82
TPH (Diesel)	110	12	--	--	Ethylbenzene	16	<0.0050	9,200	85
Benzene	86	<0.0050	16,000	40	Oil & Grease				
Toluene	1.3	<0.0050	33,000	4.9	Heavy Metals				
MTBE			<50	96	Other				
Comments (Depth of Remediation, etc.): Site was remediated by soil vapor extraction (SVE) and groundwater extraction. Concentrations reached asymptotic levels. Therefore, remediation was discontinued.									

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?			Yes
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Does corrective action protect public health for current land use?			Yes
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See attached site map.
------------------------

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Technical Reports  
Former Exxon Service Station 7-0218  
23990 Hesperian Boulevard  
Hayward, California

- Harding Lawson Associates, July 20, 1988, Subsurface Investigation
- Harding Lawson Associates, February 23, 1989, Underground Storage Tank Unauthorized Release Form
- Harding Lawson Associates, October 13, 1989, Environmental Assessment Report
- Harding Lawson Associates, May 7, 1990, Groundwater Remediation Plan
- International Technology Corporation, February 1991, Report of Analytical Findings: Exxon Company, U.S.A. Bay Drain Closures
- Terra Vac Corporation, January 21, 1994, Letter Modification to Work Plan
- Terra Vac Corporation, February 17, 1994, Drilling Report, Dual Vacuum Extraction Remediation
- Harding Lawson Associates, Quarterly Summary Report, Second Quarter, 1994
- Krazan & Associates, Inc., November 22, 1994, Limited Level II Environmental Site Assessment Proposed Taco Bell #06-1052
- Transglobal Environmental Geochemistry, February 6, 1995, Data Report - Van Brunt Associates Project #94502, Soil Vapor Survey - W. Winton & Hesperian, Hayward, California
- Van Brunt Associates, March 20, 1995, Remedial Action Workplan for the Investigation of the Source, Location, and Extent of Volatile Organic Compounds (VOC's) Found in Groundwater at Airport Plaza Shopping Center
- Terra Vac Corporation, July 25, 1995, Drilling Report
- Terra Vac Corporation, January 2, 1996, Non-Attainment Area Management Plan
- Terra Vac Corporation, June 13, 1996, Well Abandonment
- Environmental Resolutions, Inc., October 14, 1996, Product Line Replacement
- Terra Vac Corporation, October 17, 1996, Well Abandonment Report
- Blaine Tech Services, April 8, 1997, Groundwater Monitoring and Sampling, First Quarter, 1997
- Environmental Resolutions, Inc., May 18, 1998, Quarterly Groundwater Monitoring, Second Quarter 1998
- Environmental Resolutions, Inc., April 29, 1999, Annual Groundwater Monitoring, 1999
- Environmental Resolutions, Inc., June 22, 1999, Request for No Further Action
- Environmental Resolutions, Inc., February 11, 2000, Annual Groundwater Monitoring, 2000