GETTLER-RYAN INC.

JAN 2 9 2002

TRANSMITTAL

TO: Mr. Thomas Bauhs
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P.O. Box 6004
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DATE: January 25, 2002
PROJ. #: DG90917G.4C01
SUBJECT: Chevron Station #9-0917
5280 Hopyard Road
Pleasanton, California

FROM:
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SITE CONCEPTUAL MODEL AND CLOSURE REQUEST

at

Chevron Service Station No. 9-0917
5280 Hopyard Road
Pleasanton, California

JAN 2 9 2002

Report No. DG90917G.4C01-1
Delta Project No. DG90-917-G

Prepared for:

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January 25, 2002

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at

Chevron Service Station No. 9-0917
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Report No. DG90917G.4C01-1
Delta Project No. DG90-917-G

INTRODUCTION

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. (Delta) network associate Gettler-Ryan Inc. (GR) presents the following site conceptual model and closure request for the investigation at the above referenced site (Figure 1). This report is being initiated by Chevron to summarize work that has been performed at the site and to request site closure based on the data collected at the site, which includes over 12 years of groundwater monitoring and sampling data. This document was not requested by any regulatory agency.

SITE DESCRIPTION

The subject site is an active gasoline service station located on the southern corner of the intersection of Hopyard Road and Owens Drive in Pleasanton, California. Site facilities consist of a station building, car wash facility, four underground storage tanks (USTs), and three fueling dispenser islands. Locations of pertinent former and current site features are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK AND BACKGROUND

In August 1989, Groundwater Technology, Inc. (GTI) installed three groundwater monitoring wells (MW-1, MW-2 and MW-3) at the site. Historically, Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, and ethylbenzene have been detected in groundwater samples collected from well MW-1 at concentrations of up to 140, 1.0, and 13 parts per billion (ppb), respectively. TPHg, or benzene, toluene, ethylbenzene, and xylenes (BTEX) have not been detected in groundwater samples collected from well MW-3, except for ethylbenzene, which was detected slightly above the minimum reporting limit during one sampling event. TPHg or BTEX have not been detected in groundwater samples collected from well MW-2. Methyl tertiary-butyl ether (MtBE) was not analyzed for in any of the groundwater samples collected from wells MW-1, MW-2, or MW-3. Wells MW-1, MW-2, and MW-3 were monitored and sampled through April 1991, and then were abandoned. Soil samples from these well borings do not appear to have been submitted for laboratory analysis based on the information supplied by Chevron.

UST System and Source Area Removal

In June 1991, five fiberglass USTs, consisting of three 10,000-gallon gasoline, one 10,000-gallon diesel, and one 500-gallon waste-oil USTs were removed and replaced with four 12,000-gallon double-walled fiberglass gasoline USTs. Blaine Tech Services Inc. observed the UST system removal and soil excavation procedures, and collected soil and grab groundwater samples for chemical analyses. TPHg and benzene were detected in a grab water sample collected from the bottom of the UST excavation at concentrations of 24,000 and 1,000 ppb, respectively. Depth to water in the excavation was approximately 10 feet below surface grade (bsg). TPHg and benzene were detected in soil samples collected from the bottom of the UST excavation at maximum concentrations of 70 and 0.64 parts per million (ppm), respectively, at depths of 9.5 to 10 feet bsg. TPHg and benzene were detected in an over-excavation soil sample collected from beneath fuel product piping at concentrations of 440 and 1.1 ppm, respectively, from a depth of 7 feet bsg. Total Petroleum Hydrocarbons as diesel (TPHd) were detected at maximum concentrations of 8.0 ppm from a depth of 10 feet bsg in the product piping area. Over-excavation of UST and product piping areas extended to maximum depths of approximately 10 feet bsg. Soil analytical results and sample locations are presented in Attachment A. Approximately 90 cubic yards of soil, not including additional gravel, was removed during UST removal and over-excavation. Approximately 70 cubic yards of soil were removed during product line removal and over-excavation.

Groundwater Monitoring Well Destruction/Well Installation

During July 1991, GTI, abandoned wells MW-1, MW-2, and MW-3, and installed groundwater monitoring wells MW-4, MW-5, and MW-6. Based on information provided by Chevron, no soil samples from the well borings were submitted for chemical analysis. Groundwater was encountered in the well borings at a depth of approximately 9 feet bsg. Historic groundwater chemical analytical data for wells MW-4, MW-5, and MW-6 are presented in Tables 1 and 2.

On May 5, 1997, Pacific Environmental Group, Inc. (PEG), installed three off-site groundwater monitoring wells (MW-7, MW-8, and MW-9) to delineate the downgradient extent of petroleum hydrocarbon and MtBE impacted groundwater. Selected soil samples were analyzed for TPHg, BTEX, and MtBE. These compounds were not detected in any of the soil samples. Boring logs and soil analytical data are presented in Appendix B. Selected soil samples were sent to Cooper Testing Laboratories for physical analysis for moisture, density, porosity, specific gravity, and organic content. Physical soil characteristics are presented in Appendix B.

Historically, TPHg, benzene, or MtBE by EPA Method 8260 have not been detected in groundwater samples collected from wells MW-7, MW-8, or MW-9, except for one anomalous detection of benzene slightly above detection limits, from well MW-7. Historic groundwater chemical analytical data shows a generally decreasing trend in concentrations of TPHg and benzene detected in wells MW-4, 5, and 6. Historic groundwater chemical analytical data are presented in Tables 1, 2, and 3.

Groundwater Monitoring and Sampling

A total of eleven monitoring wells have been utilized to gather groundwater data for the site investigation extending over approximately twelve years. Currently, three onsite wells and three offsite wells are monitored and sampled quarterly. Annual groundwater monitoring and sampling data collected from two additional Shell-branded wells (S-6 and S-7) are also used to delineate the extent of the plume to the northeast. Monitoring and sampling results are presented in Tables 1 through 4.

Geology and Hydrogeology

The Livermore Valley Groundwater Basin is divided into twelve sub-basins based on fault traces and hydrologic discontinuities. Site geology consists of generally silty and sandy clay, and clayey sand to the maximum explored depth of 21.5 feet bsg. Boring logs are presented in Appendix B.

The site is located in the Dublin Sub-Basin (DSB). Regionally, the upper, unconfined groundwater in the DSB generally flows south. Aquifers in the DSB are generally flatlying, but there is a drop in groundwater elevation of approximately 50 feet across the Parks Fault. (Evaluation of Ground Water Resources: Livermore and Sonol Valleys, Department of the Water Resources Bulletin Number 118-2, June 1974). The Parks Fault trends east northeast approximately 1 mile south of the site (Pacific Environmental Groups, Inc., *Soil and Groundwater Investigation*, dated August 11, 1997).

Historically, the site groundwater flow direction has been variable, but recent events indicate a south-southeast flow direction at an approximate gradient between 0.004 and 0.009. Depth to groundwater at the site is between 7.5 and 10 feet bsg. The September 7, 2001 Potentiometric Map is attached as Figure 3.

Remedial Activities Performed

Over-Excavation

In June 1991, virtually all unsaturated petroleum-impacted soil beneath the UST system was removed and disposed during the UST system removal and replacement. Approximately 90 cubic yards of petroleum-impacted soil was excavated from the UST area, and an additional 70 cubic yards of soil was removed from the piping trenches. Impacted soil was transported to an appropriate disposal facility. Both UST and product piping areas were excavated to depths up to 10 feet bsg. The soil analytical results are presented in Appendix A.

Enhanced Bioremediation

Oxygen Releasing Compound (ORC) socks were installed in wells MW-5 and MW-6 on March 26, 1999. ORC in this application has an estimated time release of approximately 6 months. ORC was installed to increase the dissolved oxygen concentrations in groundwater in the areas of known petroleum hydrocarbon impact to oxidize organic contaminates and enhance biodegradation within the plume. A significant decrease in dissolved hydrocarbon concentrations was observed in wells MW-5 and MW-6 after installation of the ORC. Dissolved oxygen (DO) concentrations were monitored in wells MW-5 and MW-6. A significant decrease in dissolved oxygen concentrations was detected from samples collected from June 19, 2000 to

September 18, 2000, suggesting that the ORC socks were spent, and that oxidation and biodegradation were occurring. DO concentrations continued to decrease in wells MW-5 and MW-6 through June 2001, but the concentrations increased slightly in samples collected from the most recent monitoring and sampling event. Dissolved oxygen concentrations are presented in Table 3.

Per a request from Alameda County Health Care Services (ACHCS) personnel, GR removed the spent ORC socks in wells MW-5 and MW-6 during the monitoring and sampling event on September 7, 2001.

SITE CONCEPTUAL MODEL

Release Scenario and Plume Characterization

Soil samples collected during the 1991 UST and product piping removal and over-excavation indicate that the source of the release was likely from both, former USTs (northern end of the two middle 10,000-gallon gasoline USTs) and the former product piping. The highest hydrocarbon concentrations were detected in soil beneath the northeastern most product piping. TPHg and benzene were detected in soil samples collected from the base of the northern end of the UST excavation at maximum concentrations of 70 and 0.64 ppm, respectively, from depths of 9.5 to 10 feet bsg. TPHg and benzene were detected in an over-excavation soil sample collected from beneath product piping at concentrations of 440 and 1.1 ppm, respectively, from a depth of 7 feet bsg, and TPHd were detected at maximum concentrations of 8.0 ppm from a depth of 10 feet bsg. Over-excavation of UST and product piping areas extended to a maximum depth of 10 feet bsg. Based on the soil characteristics being predominantly very stiff clay with low permeability, and the generally low concentrations of petroleum hydrocarbons detected in soil samples collected at the base of the over-excavation, it appears that soil impact was not extensive beneath the site and virtually all unsaturated impacted soil was excavated and removed from the site.

Groundwater beneath the site has been monitored and sampled since July 1989 utilizing as many as 11 wells. During that time, depth to groundwater has varied from approximately 7.50 to 10.50 feet bsg. The groundwater flow direction has varied between northeast to south beneath the site. Historically, elevated TPHg and benzene concentrations have only been detected in wells MW-5 and MW-6, located in the southern portion of the site. Groundwater sampling data indicate that groundwater beneath the site has been impacted by petroleum hydrocarbons at concentrations up to 56,000 ppb TPHg (MW-5) and 14,000 ppb benzene (MW-5). MtBE has not been detected in groundwater samples analyzed by EPA Method 8260.

On September 7, 2001, GR performed a groundwater monitoring and sampling event at the site (Potentiometric Map - Figure 3). Wells MW-4 through MW-9 were monitored and sampled, and samples were analyzed for TPHg by EPA Method 8015M, and for BTEX and MtBE by EPA Method 8021B.

TPHg and benzene were detected at maximum concentrations of 2,600 and 330 ppb, respectively, from well MW-5. Dissolved petroleum hydrocarbons were not detected in groundwater samples collected from wells MW-4, MW-7, MW-8, and MW-9. Oxygenate compounds were analyzed during the June 1, 2001 event and were not detected in any of the groundwater samples collected from wells at the site by EPA Method 8260. Groundwater monitoring and sampling data are presented in Tables 1, 2, and 3.

GR has obtained groundwater data for a site located to the east of the subject site, across Hopyard Road (Shell-branded Service Station, located at 5251 Hopyard Road – Figure 2). Historic groundwater analytical

data collected from two monitoring wells located between the two sites (S-6 and S-7) have been non-detect for TPHg, BTEX, and MtBE for the past 10 years, except for a couple anomalous detections. Groundwater data for wells S-6 and S-7 are presented in Table 4.

Based on analytical results of groundwater samples collected from both sites, the dissolved petroleum hydrocarbon plume in groundwater is delineated by monitoring wells MW-4, MW-7, MW-8, and MW-9, and wells S-6 and S-7. The dissolved plume beneath the site appears stable. Concentrations of petroleum hydrocarbons in wells MW-5 and MW-6 have exhibited a generally decreasing trend suggesting degradation and attenuation are occurring. The remaining dissolved petroleum hydrocarbons do not appear to pose a significant health risk.

Potential Receptors

The hydrocarbon plume extends beneath the southern end of the site in low concentrations in the vicinity of MW-5 and MW-6. The area is mostly paved and used for parking, a car wash, landscaping, and a station building. The station building is located west and northeast of the well locations, and could possibly be over the plume area. Groundwater concentrations have generally decreased in levels and do not appear to pose a significant threat to the workers in the building. The nearest residential or commercial building downgradient is greater than 35 feet south of the site. Water samples collected from off-site wells located between the site and the commercial buildings (MW-7, MW-8 and MW-9) have been non-detect for dissolved petroleum hydrocarbons and delineate the extent of the hydrocarbon plume in that direction. No water producing wells are located within the plume area, therefore potential exposure through ingestion is not likely. Potential exposure receptors could be construction workers temporarily digging or trenching onsite. Potential exposure media are ambient air, soil, and groundwater in potential future excavation areas. Potential exposure receptors include current and future workers and customers of the Chevron station, motorists, pedestrians, and utility maintenance workers. The major exposure pathway is hydrocarbon volatilization from smear zone soils and groundwater to ambient and indoor air. The potential exposure pathway for utility maintenance workers is dermal contact with hydrocarbon-impact soil and groundwater.

DISCUSSION AND RECOMMENDATION

Most of the petroleum hydrocarbon impacted soil at the site was removed and disposed of during UST replacement and over-excavation in 1991. Non-detectable to generally low concentrations of TPHg and benzene reported in soil samples beneath the UST and product piping areas indicate a relatively limited area of impact.

The extent of the dissolved hydrocarbon plume has been defined. Oxygenate compounds including MtBE have not been detected in any of the wells by EPA Method 8260. Concentrations of dissolved TPHg and benzene in groundwater have declined to low or below detection limit levels.

This site appears to be low risk. The lack of reportable hydrocarbons in downgradient wells MW-7, MW-8, MW-9, and cross-gradient wells S-6 and S-7 suggests that natural attenuation of dissolved petroleum hydrocarbons is occurring between the site and the downgradient/cross-gradient wells, and additional delineation of the dissolved plume is not warranted.

Based on the site environmental conditions, there appears to be no significant potential threats to human health or the environment based on current or possible future site usage. Therefore, natural attenuation appears to be the most appropriate approach to remediate the site. Concentrations of TPHg and benzene increased during the most recent monitoring and sampling event, as a result of the recent removal of ORC from the wells. Gettler-Ryan Inc. recommends that monitoring and sampling data be collected from all wells during the fourth quarter of 2001 and the first quarter of 2002 in an effort to establish consistent, concentration trends for wells MW-5 and MW-6. If the concentration trends over the past several years in wells MW-5 and MW-6 continue to decline, GR will propose no further action for the site, and request site closure.

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)									
06/22/90	326.47	317.64	8.83	<50	0.4	<0.5	0.8	<0.5	--
09/11/90	326.47	318.06	8.41	<50	<0.5	<0.5	<0.5	<0.5	--
04/18/91	326.47	318.49	7.98	<50	<0.5	<0.5	<0.5	<0.5	--
ABANDONED									
MW-4									
09/16/91	327.28	317.69	9.59	<50	<0.5	<0.5	<0.5	<0.5	--
01/22/92	327.28	317.79	9.49	<50	<0.5	<0.5	<0.5	<0.5	--
03/26/92	327.28	318.39	8.89	<50	<0.5	<0.5	<0.5	<0.5	--
06/05/92	327.28	318.06	9.22	<50	<0.5	<0.5	<0.5	<0.5	--
09/23/92	327.28	317.93	9.35	<50	<0.5	<0.5	<0.5	<0.5	--
12/30/92	327.28	319.00	8.28	<50	<0.5	<0.5	<0.5	<0.5	--
03/22/93	327.28	319.03	8.25	<50	<0.5	<0.5	<0.5	<0.5	--
06/14/93	327.28	318.12	9.16	--	--	--	--	--	--
07/25/93	327.28	318.18	9.10	<50	<0.5	<0.5	<0.5	<0.5	--
09/23/93	327.28	318.58	8.70	<50	<0.5	<0.5	<0.5	<0.5	--
12/28/93	327.28	317.38	9.90	<50	<0.5	<0.5	<0.5	0.5	--
03/21/94	327.28	318.03	9.25	<50	1.0	2.0	0.5	1.9	--
06/07/94	327.28	318.23	9.05	<50	<0.5	<0.5	<0.5	<0.5	--
10/07/94	327.28	318.31	8.97	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/94	327.28	318.06	9.22	<50	<0.5	1.1	0.8	2.7	--
03/06/95	327.28	318.26	9.02	<50	<0.5	<0.5	<0.5	<0.5	--
06/14/95	327.28	318.47	8.81	170	<0.5	<0.5	<0.5	<0.5	--
09/14/95	327.28	318.00	9.28	<50	1.0	<0.5	1.6	<0.5	--
12/16/95	327.28	319.42	7.86	<50	<0.5	<0.5	<0.5	<0.5	150
03/28/96	327.28	318.94	8.34	<50	<0.5	<0.5	<0.5	<0.5	53
06/28/96	327.28	318.79	8.49	70	<0.5	<0.5	<0.5	<0.5	92
09/26/96	327.28	318.84	8.44	--	--	--	--	--	--
12/30/96	327.28	319.10	8.18	<50	<0.5	<0.5	<0.5	<0.5	100
03/13/97	327.28	318.43	8.85	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4 (cont)									
06/30/97	327.28	318.79	8.49	260	<0.5	<0.5	<0.5	<0.5	330
09/30/97	326.93	318.32	8.61	--	--	--	--	--	--
12/31/97	326.93	318.40	8.53	<50	<0.5	<0.5	<0.5	<0.5	170
04/02/98	326.93	317.98	8.95	--	--	--	--	--	--
06/29/98	326.93	318.21	8.72	<50	<0.5	<0.5	<0.5	<0.5	150
09/16/98	326.93	317.59	9.34	--	--	--	--	--	--
12/23/98	326.93	318.18	8.75	<50	<0.5	<0.5	<0.5	<0.5	210
03/26/99	326.93	317.79	9.14	<100	<1.0	<1.0	<1.0	<1.0	303
06/25/99	326.93	317.72	9.21	<50	<0.5	<0.5	<0.5	<0.5	228/237[1]
09/16/99	326.93	317.01	9.92	--	--	--	--	--	--
12/15/99	326.93	318.32	8.61	<50	<0.5	<0.5	<0.5	<0.5	310
03/07/00	326.93	318.59	8.34	--	--	--	--	--	--
06/19/00	326.93	318.84	8.09	<50	<0.50	<0.50	<0.50	<0.50	370
09/18/00	326.93	318.21	8.72	<50.0	<0.500	<0.500	<0.500	<0.500	326
12/01/00	326.93	318.03	8.90	<50.0	<0.500	<0.500	<0.500	<0.500	478
03/13/01	326.93	318.96	7.97	<50.0	<0.500	<0.500	<0.500	<0.500	9.53
06/01/01	326.93	318.62	8.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[7]
09/07/01	**326.94**	**318.49**	**8.45**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**400**
MW-5									
09/16/91	327.82	317.76	10.06	12,000	4,000	29	1,600	92	--
01/22/92	327.82	317.24	10.58	44,000	2,000	320	5,700	2,400	--
03/26/92	327.82	318.64	9.18	39,000	3,200	210	5,700	2,400	--
06/05/92	327.82	317.92	9.90	28,000	3,800	140	4,000	2,000	--
09/23/92	327.82	317.85	9.97	40,000	2,000	290	2,900	1,800	--
12/30/92	327.82	319.02	8.80	44,000	9,000	190	3,100	1,600	--
03/22/93	327.82	318.49	9.33	43,000	6,500	170	2,400	2,400	--
06/14/93	327.82	318.04	9.78	--	--	--	--	--	--
07/25/93	327.82	318.10	9.72	43,000	550	45	2,700	1,100	--
09/23/93	327.82	318.40	9.42	44,000	14,000	640	3,700	1,800	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5 (cont)									
12/28/93	327.82	318.15	9.67	56,000	12,000	590	4,100	1,600	--
03/21/94	327.82	318.11	9.71	48,000	12,000	600	4,700	1,600	--
06/07/94	327.82	318.10	9.72	42,000	13,000	480	3,700	1,200	--
10/07/94	327.82	318.27	9.55	15,000	1,100	41	950	34	--
12/29/94	327.82	317.90	9.92	45,000	12,000	460	3,600	1,400	--
03/06/95	327.82	318.50	9.32	40,000	9,700	210	3,500	700	--
06/14/95	327.82	318.41	9.41	42,000	8,000	170	3,700	640	--
09/14/95	327.82	317.30	10.52	26,000	4,100	85	2,000	270	--
12/16/95	327.82	319.48	8.34	35,000	7,300	<0.5	2,900	420	<500
03/28/96	327.82	318.09	9.73	30,000	5,200	160	3,500	600	<250
06/28/96	327.82	318.37	9.45	26,000	4,300	60	2,100	200	680
09/26/96	327.82	317.95	9.87	15,000	2,700	59	1,300	140	400
12/30/96	327.82	318.82	9.00	34,000	4,600	120	2,800	660	310
03/13/97	327.82	318.33	9.49	13,000	1,900	34	1,300	220	76
06/30/97	327.82	318.19	9.63	11,000	1,800	19	84	94	160
10/01/97	327.82	318.08	9.74	27,000	4,700	120	3,700	330	310
12/31/97	327.82	318.34	9.48	34,000	8,000	130	3,400	3,900	<500
04/02/98	327.82	317.44	10.38	27,000	4,600	65	3,400	270	270
06/29/98	327.82	317.79	10.03	16,000	3,000	<50	1,800	220	290
09/16/98	327.82	318.84	8.98	9,700	2,700	52	1,400	210	<250
12/23/98	327.82	318.00	9.82	5,100	1,600	18	570	39	130
03/26/99[2]	327.82	318.26	9.56	25,800	4,410	58.4	2,550	57.2	137
06/25/99	327.82	INACCESSIBLE	--	--	--	--	--	--	--
09/16/99	327.82	317.51	10.31	8,850	1,310	20.3	802	120	155
12/15/99	327.82	317.52	10.30	10,000	2,800	33	1,600	160	250
03/07/00	327.82	318.29	9.53	18,700	3,830	95.6	1,900	305	309
06/19/00[3]	327.82	318.90	8.92	1,000[4]	290	3.4	<1.0	14	52
09/18/00[3,6]	327.82	318.18	9.64	924[5]	205	<5.00	<5.00	<5.00	83.1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5 (cont)									
12/01/00[3]	327.82	318.05	9.77	<50.0	0.878	<0.500	<0.500	<0.500	<5.00
03/13/01[3]	327.82	318.67	9.15	333	55.0	0.803	21.8	1.44	2.07
06/01/01[3]	327.82	317.71	10.11	130[4]	36	<0.50	<0.50	<0.50	7.8/<2.0[7]
09/07/01[8]	**327.82**	**318.43**	**9.39**	**2,600**	**330**	**<10**	**200**	**12**	**14**
MW-6									
09/16/91	328.48	317.87	10.61	6,200	1,300	3.9	550	78	--
01/22/92	328.48	318.18	10.30	18,000	2,800	48	2,000	440	--
03/26/92	328.48	318.98	9.50	21,000	3,300	17	2,100	300	--
06/05/92	328.48	318.14	10.34	14,000	2,800	9.2	1,800	270	--
09/23/92	328.48	317.92	10.56	19,000	1,000	40	1,200	230	--
12/30/92	328.48	318.71	9.75	15,000	1,100	<5.0	1,000	77	--
03/22/93	328.48	319.21	9.27	15,000	1,300	10	770	220	--
06/14/93	328.48	318.33	10.15	--	--	--	--	--	--
07/25/93	328.48	318.23	10.25	6,400	630	<2.5	440	6.0	--
09/23/93	328.48	318.31	10.17	9,500	1,000	23	690	110	--
12/28/93	328.48	317.96	10.52	11,000	890	31	730	48	--
03/21/94	328.48	318.20	10.28	5,700	380	10	270	22	--
06/07/94	328.48	318.20	10.28	5,300	600	4.4	370	26	--
10/07/94	328.48	318.06	10.42	2,600	270	<5.0	110	<5.0	--
12/29/94	328.48	318.23	10.25	4,500	560	6.2	360	<5.0	--
03/06/95	328.48	319.12	9.36	4,100	480	15	290	20	--
06/14/95	328.48	318.37	10.11	2,800	180	6.9	110	6.6	--
09/14/95	328.48	318.21	10.27	3,100	370	<0.5	250	<0.5	--
12/16/95	328.48	319.21	9.27	1,900	210	<0.5	76	<0.5	<13
03/28/96	328.48	319.13	9.35	1,000	120	<0.5	64	<0.5	<5.0
06/28/96	328.48	318.70	9.78	950	110	0.8	44	<0.5	22
09/26/96	328.48	319.02	9.46	1,100	120	1.6	48	<0.5	17
12/30/96	328.48	319.45	9.03	3,200	260	2.3	120	<0.5	23
03/13/97	328.48	318.76	9.72	2,000	250	<0.5	110	<0.5	<5.0

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6 (cont)									
06/30/97	328.48	318.81	9.67	470	<0.5	1.2	<0.5	<0.5	<5.0
10/01/97	327.82	318.53	9.29	1,500	120	3.4	27	<0.5	20
12/31/97	327.82	317.61	10.21	1,500	79	<2.5	28	<2.5	<12
04/02/98	327.82	318.86	8.96	760	48	2.3	9.9	<1.0	15
06/29/98	327.82	318.45	9.37	340	29	<2.5	7.1	<2.5	18
09/16/98	327.82	318.60	9.22	340	18	1.4	5.6	<1.0	18
12/23/98	327.82	317.51	10.31	390	5.4	1.2	0.58	1.2	15
03/26/99[2]	327.82	317.91	9.91	1,310	132	18.5	38.5	1.88	19.1
06/25/99	327.82	317.50	10.32	856	37.4	5.2	10.7	<0.5	<2.0/<5.0[1]
09/16/99	327.82	317.28	10.54	<50	1.19	<0.5	<0.5	<0.5	<5.0
12/15/99	327.82	319.33	8.49	1,400	110	<5.0	35	<5.0	37
03/07/00	327.82	318.60	9.22	1,200	97.9	2.16	44.8	<1.25	26
06/19/00[3]	327.82	318.42	9.40	160[1]	1.4	0.73	5.4	2.4	7.9
09/18/00[3,6]	327.82	317.74	10.08	234[5]	<0.500	1.72	<0.500	<0.500	<5.00
12/01/00[3]	327.82	317.56	10.26	79.5[5]	1.74	<0.500	<0.500	<0.500	<5.00
03/13/01[3]	327.82	318.53	9.29	180	<0.500	<0.500	<0.500	<0.500	<0.500
06/01/01[3]	327.82	317.24	10.58	280[4]	4.1	0.62	<0.50	<0.50	25/<2.0[7]
09/07/01[8]	**327.83**	**317.92**	**9.91**	**1,200**	**70**	**<0.50**	**42**	**1.9**	**<2.5**
MW-7									
06/17/97	326.37	318.32	8.05	ND	ND	ND	ND	ND	ND
09/30/97	326.37	318.78	7.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/31/97	326.37	318.49	7.88	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/02/98	326.37	319.06	7.31	<50	2.6	<0.5	<0.5	<0.5	<2.5
06/29/98	326.37	318.39	7.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/98	326.37	318.55	7.82	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/23/98	326.37	318.37	8.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/26/99	326.37	318.43	7.94	<50	<0.5	<0.5	<0.5	<0.5	<2.0
06/25/99	326.37	318.65	7.72	<50	<0.5	<0.5	<0.5	<0.5	<2.0
09/16/99	326.37	317.61	8.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7 (cont)									
12/15/99	326.37	318.42	7.95	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/07/00	326.37	319.38	6.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/19/00	326.37	318.64	7.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/18/00[6]	326.37	318.21	8.16	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
12/01/00	326.37	317.06	9.31	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
03/13/01	326.37	318.65	7.72	<50.0	<0.500	<0.500	<0.500	<0.500	1.10
06/01/01	326.37	318.40	7.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[7]
09/07/01	**326.38**	**318.62**	**7.76**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**
MW-8									
06/17/97	325.89	318.15	7.74	ND	ND	ND	ND	ND	ND
09/30/97	325.89	318.16	7.73	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/31/97	325.89	318.27	7.62	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/02/98	325.89	318.48	7.41	<50	<0.5	1.3	0.67	3.5	<2.5
06/29/98	325.89	317.98	7.91	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/98	325.89	318.42	7.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/23/98	325.89	318.28	7.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/26/99	325.89	316.81	9.08	<50	<0.5	<0.5	<0.5	<0.5	5.01
06/25/99	325.89	315.94	9.95	<50	<0.5	<0.5	<0.5	<0.5	<2.0
09/16/99	325.89	316.00	9.89	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/15/99	325.89	317.14	8.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/07/00	325.89	317.11	8.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/19/00	325.89	318.34	7.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/18/00	325.89	317.64	8.25	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
12/01/00	325.89	317.45	8.44	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
03/13/01	325.89	318.32	7.57	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
06/01/01	325.89	317.97	7.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[7]
09/07/01	**325.89**	**318.11**	**7.78**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9									
06/20/97	325.73	317.88	7.85	ND	ND	ND	ND	ND	ND
10/01/97	325.73	318.10	7.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/31/97	325.73	318.53	7.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/02/98	325.73	318.52	7.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/29/98	325.73	315.31	10.42	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/98	325.73	315.99	9.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/23/98	325.73	317.59	8.14	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/26/99	325.73	317.62	8.11	<50	<0.5	<0.5	<0.5	<0.5	<2.0
06/25/99	325.73	318.28	7.45	<50	<0.5	<0.5	<0.5	<0.5	<2.0
09/16/99	325.73	316.87	8.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/15/99	325.73	317.93	7.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/07/00	325.73	318.37	7.36	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/19/00	325.73	318.39	7.34	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/18/00	325.73	317.61	8.12	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
12/01/00	325.73	317.46	8.27	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
03/13/01	325.73	318.34	7.39	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
06/01/01	325.73	317.92	7.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[7]
09/07/01	**325.73**	**317.55**	**8.18**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**
BAILER BLANK									
03/22/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/23/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/28/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/21/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK									
06/22/90	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
09/16/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/22/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/26/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/05/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/23/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/30/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/22/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/25/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/23/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/28/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/21/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/07/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/07/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/29/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/06/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/14/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/14/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/28/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
06/28/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/26/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/30/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
03/13/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
06/30/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/01/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/31/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/02/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/29/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/16/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/23/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK (cont)									
03/26/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
09/16/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/15/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/07/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/19/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/18/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
12/01/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00
03/13/01	--	--	--	<50.0	<0.500	1.61	<0.500	0.593	<0.500
06/01/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
09/07/01	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0917
5280 Hopyard Road
Pleasanton, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 19, 2000, were compiled by reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

1 Confirmation run.
2 ORC installed.
3 ORC present in well.
4 Laboratory report indicates gasoline C6-C12.
5 Laboratory report indicates unidentified hydrocarbons C6-C12.
6 Laboratory report indicates insufficient preservative to reduce sample pH to less than 2. Sample was analyzed within 14 days, but beyond the seventh day recommended for Benzene, Toluene, Xylenes, and Ethylbenzene.
7 MTBE by EPA Method 8260.
8 Removed ORC from well.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-0917
5280 Hopyard Road
Pleasanton, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-4	06/01/01	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	06/01/01	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6	06/01/01	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-7	06/01/01	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-8	06/01/01	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-9	06/01/01	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide
(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Dissolved Oxygen Concentrations

Chevron Service Station #9-0917

5280 Hopyard Road

Pleasanton, California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-4	**09/07/01**	**1.96**	--
MW-5	06/19/00	9.65	--
	09/18/00	3.59	--
	12/01/00	3.76	--
	03/13/01	3.59	--
	06/01/01	3.36	--
	09/07/01	**4.02**	--
MW-6	06/19/00	5.88	--
	09/18/00	4.81	--
	12/01/00	4.27	--
	03/13/01	4.12	--
	06/01/01	3.84	--
	09/07/01	**4.26**	--
MW-7	**09/07/01**	**2.04**	--
MW-8	**09/07/01**	**2.17**	--
MW-9	**09/07/01**	**1.72**	--

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

Table 4
WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA
Wic #204-6138-0907

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/25/1991	2,500	1,500	460	<25	130	36	NA	NA	326.73	NA	NA	NA
S-1	04/06/1991	6,700	2,600a	2,600	14	580	250	NA	NA	326.73	NA	NA	NA
S-1	07/24/1991	8,800	3,800a	2,300	30	640	220	NA	NA	326.73	NA	NA	NA
S-1	10/18/1991	12,000	3,300a	3,600	380	990	580	NA	NA	326.73	8.85	317.88	NA
S-1	01/23/1992	1,600	890	450	3	120	17	NA	NA	326.73	NA	NA	NA
S-1	04/27/1992	1,100g	500a	610	<10	110	10	NA	NA	326.73	NA	NA	NA
S-1	07/21/1992	5,100	290c	1,900	54	460	140	NA	NA	326.73	NA	NA	NA
S-1	10/16/1992	13,000	390c	3,200	310	780	360	NA	NA	326.73	NA	NA	NA
S-1	01/23/1993	2,300	30d	640	<5	110	13	NA	NA	326.73	7.96	318.77	NA
S-1	04/28/1993	4,600	390	780	<0.5	250	<0.5	NA	NA	326.73	9.07	317.66	NA
S-1	09/22/1993	3,000	610a	660	28	160	17	NA	NA	326.73	8.68	318.05	NA
S-1	12/08/1993	520	280	210	<2.5	49	<2.5	NA	NA	326.73	8.23	318.50	NA
S-1	03/04/1994	640	NA	190	1.4	18	1.3	NA	NA	326.73	8.81	317.92	NA
S-1 (D)	03/04/1994	640	NA	180	1.7	17	1.3	NA	NA	326.73	8.81	317.92	NA
S-1	06/16/1994	2,500	NA	390	9.5	31	7.5	NA	NA	326.73	8.80	317.93	NA
S-1 (D)	06/16/1994	2,000	NA	410	7.8	120	20	NA	NA	326.73	8.80	317.93	NA
S-1	09/13/1994	1,400	NA	310	7.7	29	8.5	NA	NA	326.73	8.62	318.11	NA
S-1 (D)	09/13/1994	1,400	NA	240	7.9	44	6.3	NA	NA	326.73	8.62	318.11	NA
S-1	05/05/1995	800	NA	120	3.6	26	2.7	NA	NA	326.73	11.54	315.19	NA
S-1 (D)	05/05/1995	710	NA	110	3.4	19	2.7	NA	NA	326.73	11.54	315.19	NA
S-1	05/21/1996	1,500	NA	170	8.5	120	6.7	NA	NA	326.73	8.88	317.85	NA
S-1	05/12/1997	4,700	NA	200	15	210	20	2,300	NA	326.73	11.19	315.54	2.4
S-1 (D)	05/12/1997	4,800	NA	210	16	190	16	3,200	2,900	326.73	11.19	315.54	2.4
S-1	05/08/1998	500	NA	18	2.1	2.3	2	1,000	NA	326.73	8.38	318.35	2.1

Table 4

WELL CONCENTRATIONS
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Pleasanton, CA
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	06/27/1999	2,970	NA	117	32.0	69.1	17.5	374	NA	326.73	8.79	317.94	2.4
S-1	04/28/2000	1920	NA	50.5	15.0	67.2	16.7	276	NA	326.73	8.50	318.23	2.8
S-2	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.83	317.76	NA
S-2	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	07/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	01/23/1993	<50	140b	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.10	318.49	NA
S-2	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	9.06	317.53	NA
S-2	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.91	317.68	NA
S-2	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.59	9.07	317.52	NA
S-2	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.90	317.69	NA
S-2	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.98	317.61	NA
S-2	09/13/1994	<50	NA	<0.5	2.5	<0.5	<0.5	NA	NA	326.59	8.78	317.81	NA
S-2	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.60	317.99	NA
S-2	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.75	317.84	NA
S-2	05/12/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	326.59	8.72	317.87	3.4
S-2	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.59	8.63	317.96	3.1
S-2	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	326.59	8.79	317.80	2.6
S-2	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.59	8.33	318.26	2.0

Table 4

WELL CONCENTRATIONS
Shell-branded Service Station
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Pleasanton, CA
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	01/25/1991	870	330	230	<2.5	130	<2.5	NA	NA	327.38	NA	NA	NA
S-3	04/16/1991	190	140a	12	0.8	6.2	1.5	NA	NA	327.38	NA	NA	NA
S-3	07/24/1991	1,700	1,200a	450	4.4	150	2.9	NA	NA	327.38	NA	NA	NA
S-3	10/18/1991	1,900	500	370	3.1	120	220	NA	NA	327.38	9.64	317.74	NA
S-3	01/23/1992	2,000	650a	580	3	200	<0.5	NA	NA	327.38	NA	NA	NA
S-3	04/27/1992	1,100	230a	150	<3	76	14	NA	NA	327.38	NA	NA	NA
S-3	07/17/1992	810	58	200	<2.5	57	3.8	NA	NA	327.38	NA	NA	NA
S-3	10/16/1992	440	190c	79	1.8	18	4.6	NA	NA	327.38	NA	NA	NA
S-3	01/23/1993	670	170d	79	1.5	46	15	NA	NA	327.38	8.81	318.57	NA
S-3	04/28/1993	2,000	<50	300	3.4	210	38	NA	NA	327.38	9.87	317.51	NA
S-3	09/22/1993	4,800	670a	2,000	34	150	51	NA	NA	327.38	9.65	317.73	NA
S-3	12/08/1993	1,200	11	440	<5.0	120	29	NA	NA	327.38	9.26	318.12	NA
S-3	03/04/1994	630	NA	130	<0.5	17	0.8	NA	NA	327.38	9.64	317.74	NA
S-3	06/16/1994	1,800	NA	430	19	35	21	NA	NA	327.38	9.78	317.60	NA
S-3	05/05/1995	160	NA	50	0.9	7.2	4.1	NA	NA	327.38	9.38	318.00	NA
S-3	05/21/1996	270	NA	45	<0.5	1.4	<0.5	NA	NA	327.38	9.41	317.97	NA
S-3 (D)	05/21/1996	210	NA	<0.5	<0.5	0.95	<0.5	NA	NA	327.38	9.41	317.97	NA
S-3	05/12/1997	420	NA	<1.0	<1.0	<1.0	<1.0	57	NA	327.38	9.30	318.08	2.5
S-3	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	327.38	9.12	318.26	2.2
S-3	06/27/1999	106	NA	8.51	<0.500	<0.500	<0.500	31.0	NA	327.38	9.39	317.99	2.1
S-3	04/28/2000	139	NA	7.58	<0.500	<0.500	<0.500	42.6	NA	327.38	9.04	318.34	1.8
S-4	01/25/1991	<50	<50	<0.5	1.5	<0.5	2.8	NA	NA	327.38	NA	NA	NA
S-4	04/16/1991	<50	0.7	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	8.82	318.56	NA
S-4	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	07/17/1992	<500	74	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	10/16/1992	<500	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	01/23/1993	<500	94b	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	8.32	319.06	NA
S-4	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	9.76	317.62	NA
S-4	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.30	318.08	NA
S-4	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.74	317.64	NA
S-4	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.60	317.78	NA
S-4	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.42	317.96	NA
S-4	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	9.02	318.36	NA
S-4	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	9.29	318.09	NA
S-4	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	140	NA	327.38	7.95	319.43	2.5
S-4	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	250	NA	327.38	8.96	318.42	2.0
S-4	06/27/1999	303	NA	35.8	24.8	12.4	69.8	106	NA	327.38	8.90	318.48	2.6
S-4	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	402	NA	327.38	8.37	319.01	1.9
S-5	01/25/1991	<50	<50	<0.5	<0.5	<0.5	0.7	NA	NA	327.76	NA	NA	NA
S-5	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.8	NA	NA	327.76	NA	NA	NA
S-5	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	NA	NA	NA
S-5	10/18/1991	120e	<50	4.3	<0.5	1	0.7	NA	NA	327.76	10.00	317.76	NA
S-5	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	NA	NA	NA
S-5	04/27/1992	50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	327.76	NA	NA	NA
S-5	07/17/1992	<50	70	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	NA	NA	NA

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WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-5	10/16/1992	230	57	13	<0.5	4.9	4.3	NA	NA	327.76	NA	NA	NA
S-5	01/23/1993	<50	150b	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	8.88	318.88	NA
S-5	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	10.20	317.56	NA
S-5	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.92	317.84	NA
S-5	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	10.19	317.57	NA
S-5	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.95	317.81	NA
S-5	06/16/1994	<50	NA	0.9	<0.5	<0.5	<0.5	NA	NA	327.76	10.02	317.74	NA
S-5	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.58	318.18	NA
S-5	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.84	317.92	NA
S-5	05/12/1997	360	NA	3.3	<0.50	17	9.8	130	NA	327.76	9.16	318.60	4.2
S-5	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	92	NA	327.76	9.25	318.51	3.8
S-5 (D)	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	100	NA	327.76	9.25	318.51	3.8
S-5	06/27/1999	223	NA	13.7	12.9	8.20	45.8	106	NA	327.76	9.39	318.37	3.0
S-5	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	255	NA	327.76	9.43	318.33	1.2
S-6	01/25/1991	<50	<50	<0.5	1.7	<0.5	2.8	NA	NA	326.56	NA	NA	NA
S-6	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	326.56	NA	NA	NA
S-6	07/24/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	326.56	NA	NA	NA
S-6	10/18/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	326.56	8.84	317.22	NA
S-6	01/23/1992	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	326.56	NA	NA	NA
S-6	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	NA	NA	NA
S-6	07/17/1992	400	130	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	NA	NA	NA
S-6	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	NA	NA	NA
S-6	01/23/1993	<50	230b	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	7.82	318.74	NA
S-6	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	9.00	317.56	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-6	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.61	317.96	NA
S-6	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	10.02	316.54	NA
S-6	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.88	317.68	NA
S-6	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	9.04	317.52	NA
S-6	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.54	318.02	NA
S-6	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.62	317.94	NA
S-6	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.56	8.60	317.96	2.6
S-6	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.56	7.90	318.66	2.2
S-6	06/27/1999	430	NA	50.1	30.5	15.2	83.5	8.05	NA	326.56	8.01	318.55	2.3
S-6	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.56	8.84	317.72	2.0
S-7	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	10/18/1991	<50	140f	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.92	317.57	NA
S-7	01/23/1992	<50	140f	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	07/17/1992	<50	<50	<0.5	1.8	0.6	4.1	NA	NA	326.49	NA	NA	NA
S-7	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	01/23/1993	<50	110b	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.06	318.43	NA
S-7	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.94	317.55	NA
S-7	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.57	317.92	NA
S-7	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.00	317.49	NA
S-7	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.96	317.53	NA
S-7	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.12	317.37	NA

Table 4

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA
Wic #204-6138-0907

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-7	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.58	317.91	NA
S-7	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.64	317.85	NA
S-7	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.49	8.74	317.75	2.3
S-7	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.49	8.00	318.49	2.5
S-7	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	326.49	8.75	317.74	2.9
S-7	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.49	8.96	317.53	2.2
S-8	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	10/18/1991	<50	360f	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.62	317.70	NA
S-8	01/23/1992	<50	90	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	07/17/1992	53	<50	<0.5	1	<0.5	1.8	NA	NA	325.32	NA	NA	NA
S-8	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	01/23/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.00	318.32	NA
S-8	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.77	317.55	NA
S-8	09/22/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.67	317.65	NA
S-8	12/08/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.76	317.56	NA
S-8	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.66	317.66	NA
S-8	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.78	317.54	NA
S-8	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.42	317.90	NA
S-8	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.50	317.82	NA
S-8	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	325.32	7.56	317.76	1.6
S-8	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	325.32	7.64	317.68	2.0

Table 4

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA
Wic #204-6138-0907

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-8	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	325.32	7.75	317.57	2.3
S-8	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	325.32	8.02	317.30	1.8

Abbreviations:

TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOC = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

ppm = parts per million

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

Table 4

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA
Wic #204-6138-0907

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Compounds detected as TEPH appear to be the less volatile constituents of gasoline.

b = The concentration reported as TEPH primarily due to the presence of a heavier petroleum product.

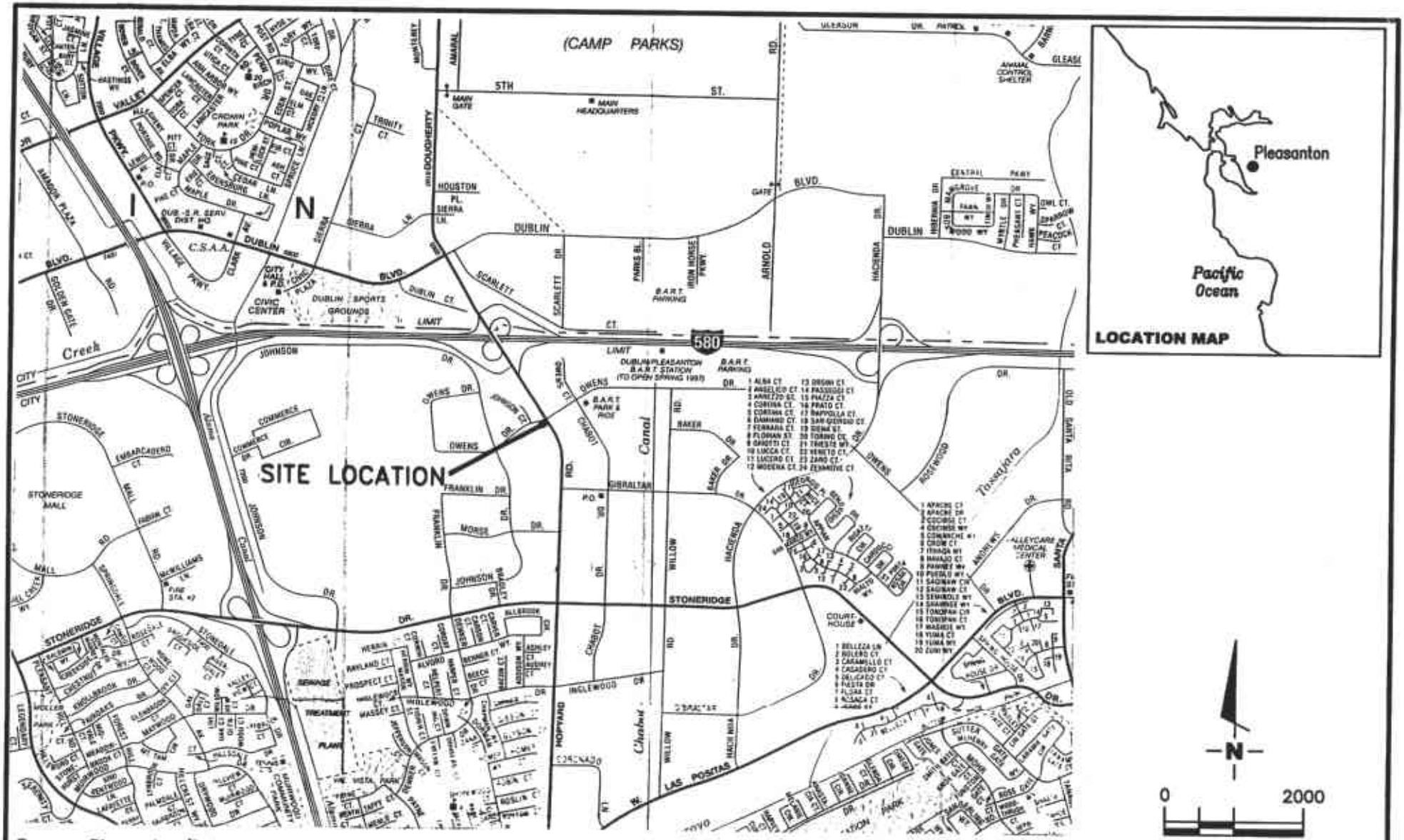
c = The concentration reported as TEPH due to the presence of a lighter petroleum product.

d = Concentrations reported as diesel includes a heavier petroleum product.

e = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard gasoline pattern.

g = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard diesel pattern.

h = The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline.



Source: Pleasanton/Dublin AAA map.

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VICINITY MAP
Chevron Service Station No. 9-0917
5280 Hopyard Road
Pleasanton, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
345242		2/01	

FILE NAME: P:\ENVIRO\CHEVRON\9-0917\VIC-9-0917.DWG | Layout Tab: CA

EXPLANATION

- Groundwater monitoring well (Chevron)
- Abandoned well (Chevron)
- Groundwater monitoring well (Shell)
- Vapor extraction well (Shell)

OWENS DRIVE

Restaurant

Approximate Property Line

MW-4

MW-1

MW-2

Former UST Pit

Underground Storage Tanks

Dispenser Islands

MW-3

Chevron

Canopy

Former Dispenser Island

Station Building

MW-6

MW-5

Car Wash

Planter

MW-7

Motel

MW-9

MW-8

Restaurant

HOPYARD ROAD

S-7

S-6

S-8

Planter

Sidewalk

S-2

Planter

Underground Storage Tanks

Planter

Former Dispenser Islands

V-1

V-2

V-3

Former UST Pit

S-1

Station Building

Planter

Planter

S-3

Dispenser Islands

S-5

Planter

Car Wash

Shell

S-4

Planter

N

0 60

Scale in Feet

Source: Figure modified from drawings provided by RRM Engineering, Pacific Environmental Group, Inc., Cambria and County Assessor's Map.

FIGURE 2

EXTENDED SITE PLAN
Chevron Service Station No. 9-0917
5280 Hopyard Road
Pleasanton, California

REVISED DATE

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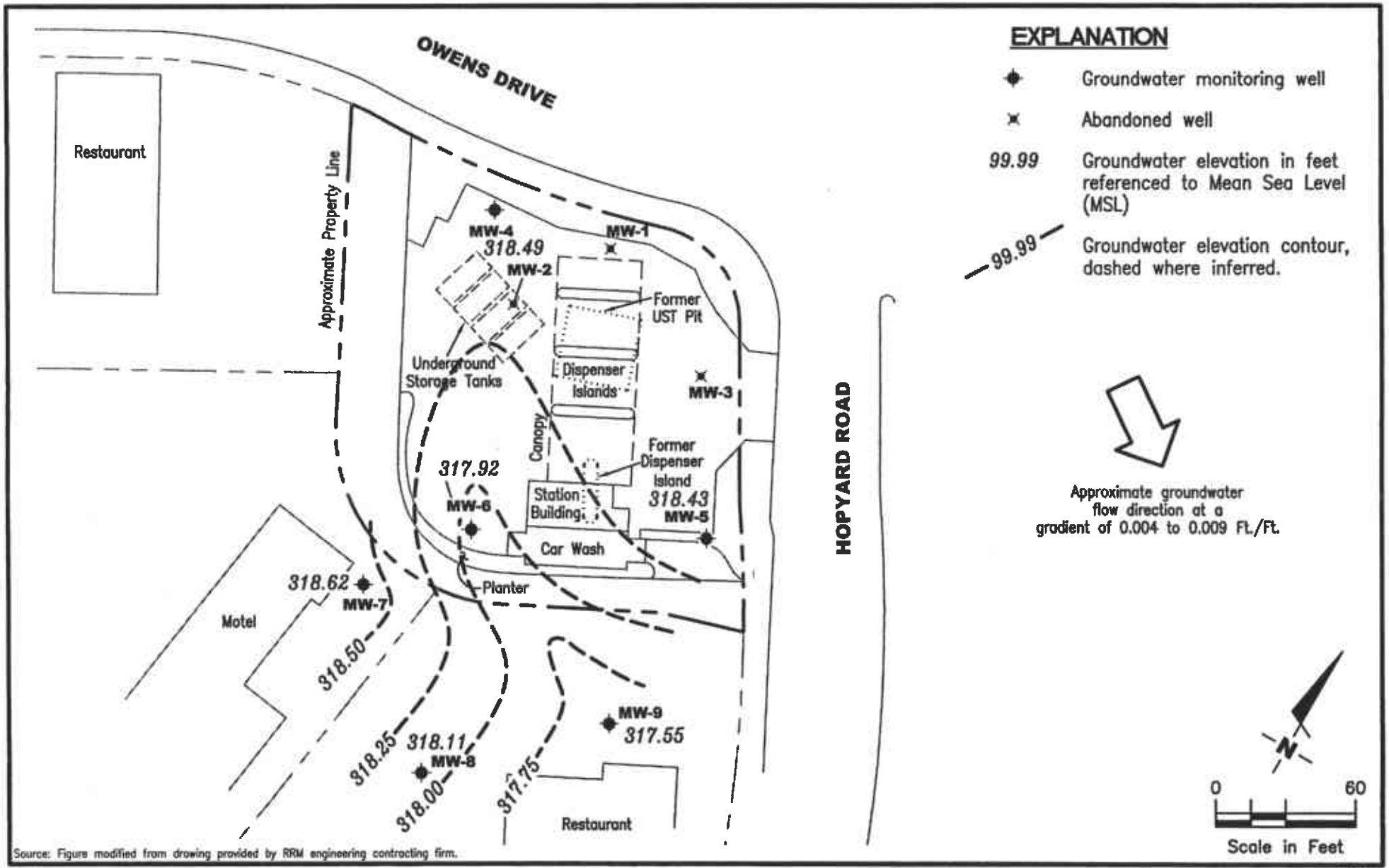
PROJECT NUMBER 345242

REVIEWED BY

DATE 2/01

FILE NAME: P:\ENVIRO\CHEVRON\9-0917\VA01-9-0917.DWG | Layout Tab: Work Plan 2-01



Source: Figure modified from drawing provided by RRM engineering contracting firm.

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POTENTIOMETRIC MAP
Chevron Service Station #9-0917
5280 Hopyard Road
Pleasanton, California

FIGURE
3

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
385242		September 7, 2001	

FILE NAME: P:\ENVIRO\CHEVRON\9-0917\Q01-9-0917.DWG | Layout Tab: Pot3

EXPLANATION

- Groundwater monitoring well (Chevron)
- Abandoned well (Chevron)
- Groundwater monitoring well (Shell)
- Vapor extraction well (Shell)
- *500* TPH–G (Total Petroleum Hydrocarbons as Gasoline) concentrations in ppb
- –500– TPH–G isoconcentration contour
- * Sampled April 28, 2000

OWENS DRIVE

Restaurant

Approximate Property Line

MW-4 <50.0

MW-2

MW-1

Former UST Pit

Underground Storage Tanks

Dispenser Islands

MW-3

Former Dispenser Island

Canopy

Chevron

1,200 MW-6

Station Building

2,600 MW-5

Car Wash

500

50

Planter

MW-7 <50.0

Motel

MW-9 <50.0

MW-8 <50.0

Restaurant

HOPYARD ROAD

S-7 <50.0 *

S-6 <50.0 *

S-8

Planter Sidewalk

S-2

Planter

Underground Storage Tanks

Planter

Former Dispenser Islands

V-2

V-1

V-3

Former UST Pit

S-1

Station Building

Planter

Planter

S-3

Planter

Dispenser Islands

S-5

Car Wash

Shell

S-4

Planter

N

0 60

Scale in Feet

Source: Figure modified from drawings provided by RRM Engineering, Pacific Environmental Group, Inc., Cambria and County Assessor's Map.

FIGURE 4

TPH–G ISOCONCENTRATION MAP
Chevron Service Station No. 9–0917
5280 Hopyard Road
Pleasanton, California

REVISED DATE

DATE September 7, 2001

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PROJECT NUMBER DG90917G.4C01

REVIEWED BY

FILE NAME: P:\ENVIRO\CHEVRON\9–0917\A01–9–0917.DWG | Layout Tab: SCM 1–02

EXPLANATION

- Groundwater monitoring well (Chevron)
- Abandoned well (Chevron)
- Groundwater monitoring well (Shell)
- Vapor extraction well (Shell)
- 50 — Benzene concentration in ppb
- –50– — Benzene isoconcentration contour
- * — Sampled April 28, 2000

OWENS DRIVE

Restaurant

Approximate Property Line

MW-4 <0.50

MW-1

MW-2

Former UST Pit

Underground Storage Tanks

Dispenser Islands

MW-3

Former Dispenser Island

Chevron

Canopy

Station Building

MW-6 70

330

MW-5

Car Wash

50

5.0

Planter

Motel

MW-7 <0.50

MW-9 <0.50

MW-8 <0.50

Restaurant

HOPYARD ROAD

S-7 <0.500 *

S-6 <0.500 *

S-8

Planter

Sidewalk

S-2

Planter

Underground Storage Tanks

Planter

Former Dispenser Islands

V-1

V-2

V-3

Former UST Pit

Station Building

Planter

S-1

S-3

Planter

Dispenser Islands

Planter

S-5

Shell

Car Wash

S-4

Planter

N

0 60

Scale in Feet

Source: Figure modified from drawings provided by RRM Engineering, Pacific Environmental Group, Inc., Cambria and County Assessor's Map.

FIGURE 5

BENZENE ISOCONCENTRATION MAP
Chevron Service Station No. 9-0917
5280 Hopyard Road
Pleasanton, California

REVISED DATE

DATE September 7, 2001

REVIEWED BY

PROJECT NUMBER DG90917G.4C01

FILE NAME: P:\ENVIRO\CHEVRON\9-0917\ADT-9-0917.DWG | Layout Tab: Benz3 1-02

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TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS RMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM TPH AS DIESEL	PPM BEN-ZENE	PPM TOL-UENE	PPM ETHYL BEN-ZENE	PPM XY-LENES
AF	8.5	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#6	CLAYTON	9106069-6A	14	--	0.26	0.08	ND	0.25
AM	9.0	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#2	CLAYTON	9106069-2A	4.1	--	0.23	0.047	0.31	0.16
Aop	9.0	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#9	CLAYTON	9106069-9A	9.0	--	0.11	0.06	ND	0.17
BF	8.5	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#3	CLAYTON	9106069-3A	--	ND	0.077	0.007	0.025	0.61
	8.5	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#1	CLAYTON	9106069-1A	--	ND	0.26	0.015	0.009	0.008
Bop	10.0	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#10	CLAYTON	9106069-10A	--	ND	0.052	0.024	0.071	0.14
CF	9.0	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#5	CLAYTON	9106069-5A	4.8	--	0.11	ND	0.16	0.18
Cop	9.5	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#8	CLAYTON	9106069-8A	43	--	0.64	0.12	2.3	0.49
DF	9.0	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#4	CLAYTON	9106069-4A	3.6	--	0.027	0.010	0.091	0.053
Dop	10.0	LIA	CAPILLAR	SOIL	06/07/91	910607-Z-1	#7	CLAYTON	9106069-7A	70	--	0.36	0.30	0.13	0.59
STOCK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#11A-D	CLAYTON	9106069-11E	--	ND	0.015	0.028	0.009	0.23
	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#12A-D	CLAYTON	9106069-12E	--	2.0	ND	ND	ND	ND
PRODUCT LINE															
#14	2.0	LIA	INTRFACE	SOIL	06/07/91	910607-Z-1	#14	CLAYTON	9106069-14A	970	ND	32	120	0.6	130
#15	8.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#15	CLAYTON	9106069-15A	50	ND	0.16	0.25	0.14	0.27
#16	7.5	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#16	CLAYTON	9106069-16A	4.8	--	ND	0.067	0.040	0.044
#17	3.0	LIA	INTRFACE	SOIL	06/07/91	910607-Z-1	#17	CLAYTON	9106069-17A	59	--	0.10	0.070	0.54	0.98
#18	7.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#18	CLAYTON	9106069-18A	58	--	ND	0.090	0.45	1.4
#19	3.0	LIA	INTRFACE	SOIL	06/07/91	910607-Z-1	#19	CLAYTON	9106069-19A	ND	--	ND	0.010	ND	0.019
#20	6.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#20	CLAYTON	9106069-20A	ND	--	ND	0.011	ND	ND
#21	9.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#21	CLAYTON	9106069-21A	ND	--	ND	0.013	ND	0.008
#22	3.0	LIA	INTRFACE	SOIL	06/07/91	910607-Z-1	#22	CLAYTON	9106069-22A	ND	--	ND	0.035	ND	0.032
#23	6.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#23	CLAYTON	9106069-23A	ND	--	ND	0.24	0.21	0.54
#24	3.0	LIA	INTRFACE	SOIL	06/07/91	910607-Z-1	#24	CLAYTON	9106069-24A	53	ND	0.32	0.42	0.22	3.1
#25	7.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#25	CLAYTON	9106069-25A	440	ND	1.1	5.2	0.54	22
#26	3.0	LIA	INTRFACE	SOIL	06/07/91	910607-Z-1	#26	CLAYTON	9106069-26A	1800	ND	12	15	2.9	70
#27	10.0	LIA	EXPLOR	SOIL	06/07/91	910607-Z-1	#27	CLAYTON	9106069-27A	ND	8.0	ND	0.017	ND	0.075
PLSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#29A-D	CLAYTON	9106069-29E	ND	79	0.013	0.026	ND	0.17
	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#30A-D	CLAYTON	9106069-30E	100	ND	0.13	0.42	0.39	2.1
#1	10.0	ELECTIVE	SUBSURF	WATER	06/14/91	910614-Z-1	#1	CLAYTON	9106121-01A	* 24000	--	1000	470	220	5500

* Analytical results are reported in parts per billion (ppb).

Standard - The location conformed to established (professional or regulatory) definitions for the type of sample being collected. Example: a standard RWQCB interface sample.

LIA - The local implementing agency inspector chose a sampling location that was different from a standard (pre-defined) location.

Elective - Elective samples are not taken to comply with regulatory requirements, but to obtain information. Sampling locations may be chosen by the property owner, the contractor, a consultant, etc. The samples may or may not be analyzed.

TABLE OF SAMPLING LOCATIONS AND ANALYTICAL RESULTS

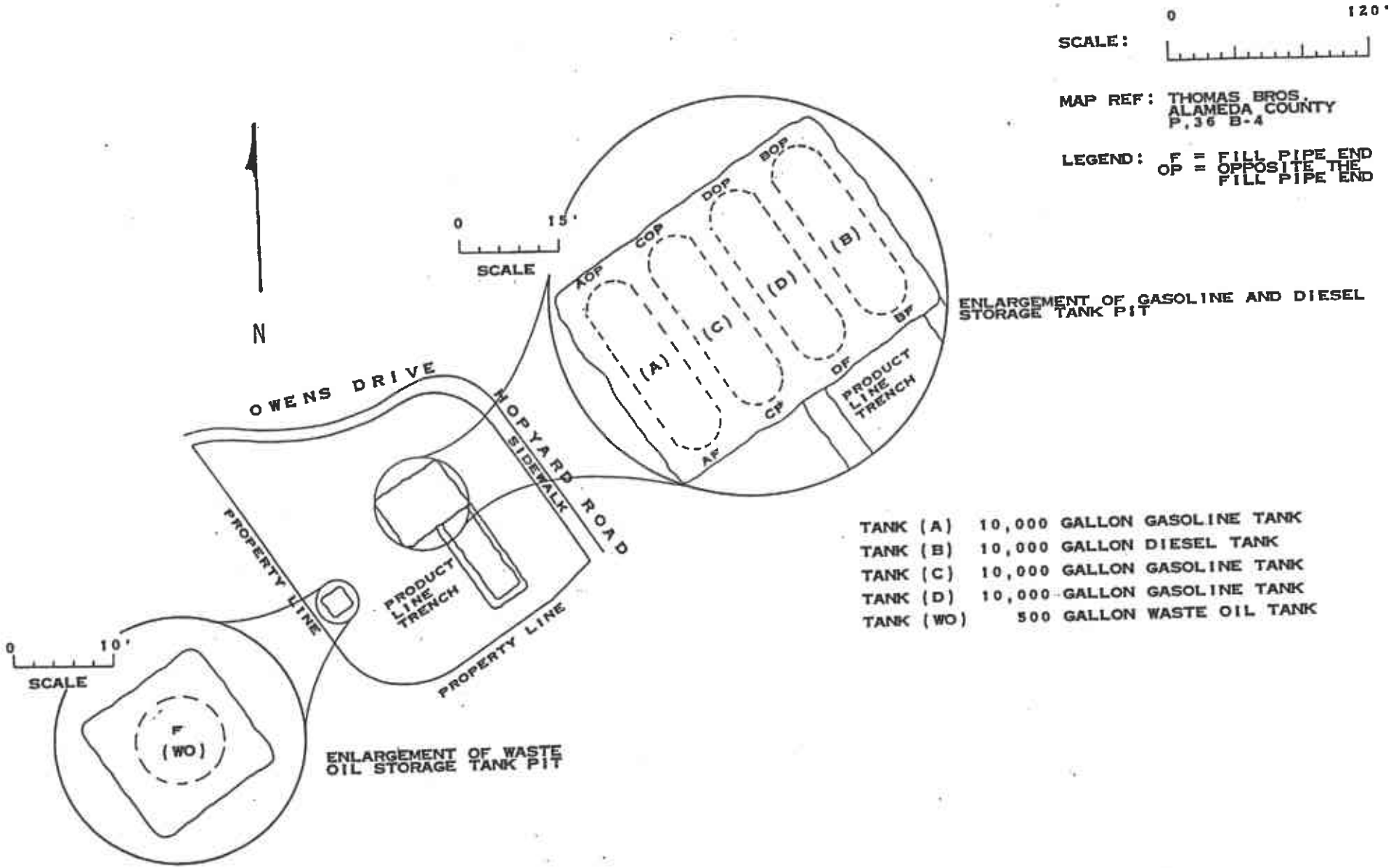
NOTE: Analytical results are reported in Parts Per Million or Parts Per Billion

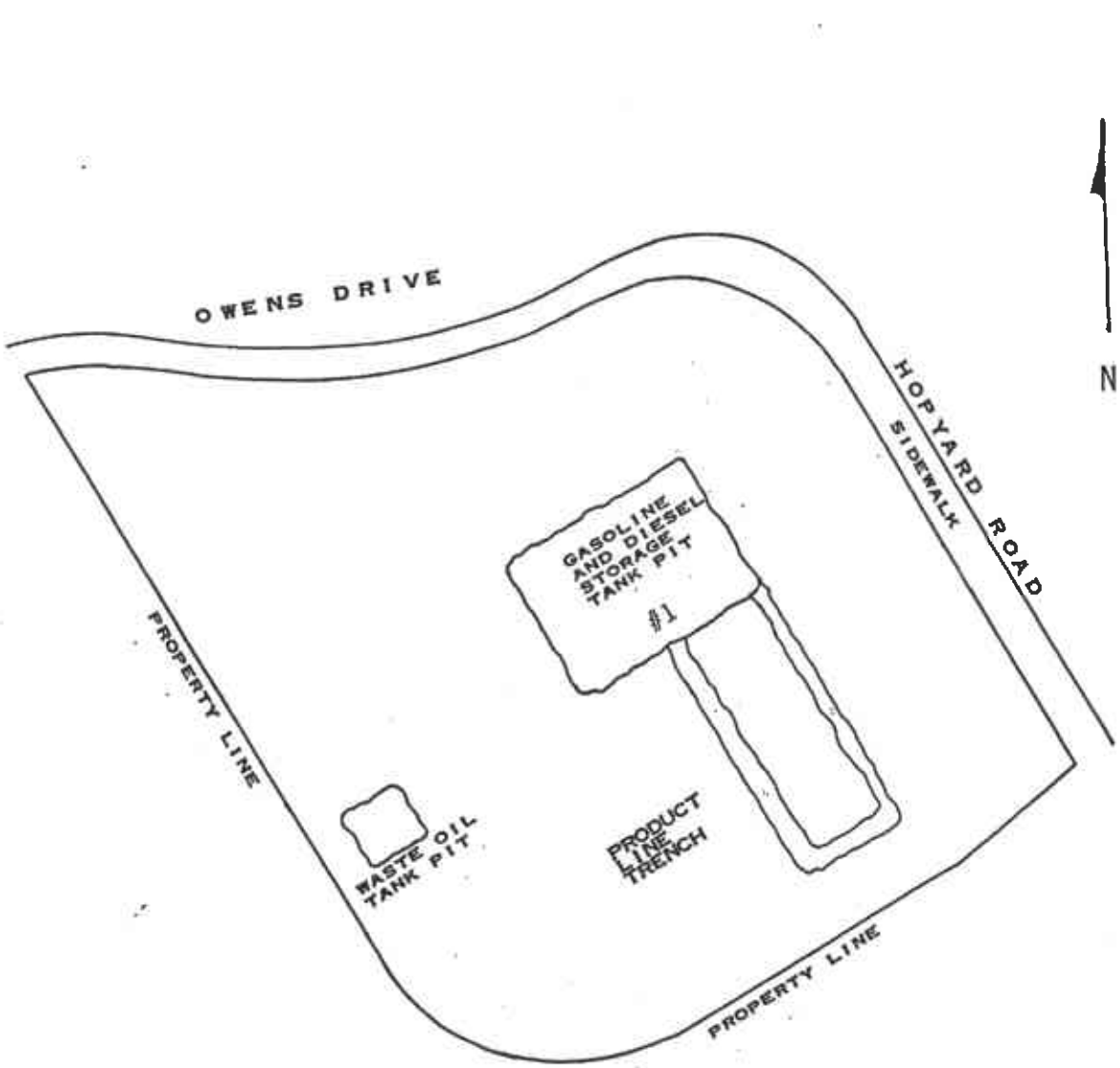
I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS RMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TPH AS GAS	PPM TPH AS DIESEL	PPM BEN-ZENE	PPM TOL-UENE	PPM ETHYL BEN-ZENE	PPM XY-LENES
WoM	9.0	STANDARD	INTRFACE	SOIL	06/07/91	910607-Z-1	#28	CLAYTON	9106069-28A	4.0	ND	0.051	0.054	0.011	0.13
WoSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#13	CLAYTON	9106069-13A	9.4	ND	ND	0.14	0.017	0.37

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS RMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TOTAL OIL & GREASE	PPM CAM WET LEAD	PPB EPA 8010 COMPOUNDS
WoM	9.0	STANDARD	INTRFACE	SOIL	06/07/91	910607-Z-1	#28	CLAYTON	9106069-28A	<50	--	ND
WoSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#13	CLAYTON	9106069-13A	<50	0.1	--
PLSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#29A-D	CLAYTON	9106069-29E	--	0.2	ND
	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#30A-D	CLAYTON	9106069-30E	--	<0.1	ND

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS RMTL LABORATORY	LABORATORY SAMPLE I.D.	PPM TCLP METALS As	Ba	Cd	Cr	Pb	Hg	Se	Ag
WoSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#13	CLAYTON	9106069-13A	<0.1	1.6	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1
PLSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#29A-D	CLAYTON	9106069-29E	<0.1	1.8	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1
	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#30A-D	CLAYTON	9106069-30E	<0.1	1.6	<0.05	<0.1	<0.1	<0.01	<0.1	<0.1

I.D. GIVEN THIS SAMPLE AREA	SAMPLE DEPTH IN FT. BELOW GRADE	SAMPLING LOCATION DICTATED BY	TYPE & METHOD FOR THE SAMPLE OBTAINED	SAMPLE MATRIX	DATE SAMPLED	BTS CHAIN OF CUSTODY I.D.	BTS SAMPLE I.D.	NAME OF DOHS RMTL LABORATORY	LABORATORY SAMPLE I.D.	REACTIVITY--PPM--- CYANIDE	SULFIDE	CORROSIVITY pH	IGNITABILITY FLASH POINT
STOCK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#11A-D	CLAYTON	9106069-11E	0.7	<10	8.6	N.I.
	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#12A-D	CLAYTON	9106069-12E	<0.3	<10	8.7	N.I.
WoM	9.0	STANDARD	INTRFACE	SOIL	06/07/91	910607-Z-1	#28	CLAYTON	9106069-28A	<0.3	<10	8.2	N.I.
WoSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#13	CLAYTON	9106069-13A	<0.3	<10	8.5	N.I.
PLSTK	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#29A-D	CLAYTON	9106069-29E	<0.3	<10	8.5	N.I.
	12"	STANDARD	BAAQMD-M	SOIL	06/07/91	910607-Z-1	#30A-D	CLAYTON	9106069-30E	<0.3	<10	8.9	N.I.


SCALE: 0 120'
MAP REF: THOMAS BROS. ALAMEDA COUNTY P.36 B-4
LEGEND: F = FILL PIPE END
OP = OPPOSITE THE FILL PIPE END
N
OWENS DRIVE
HOPYARD ROAD
SIDEWALK
PROPERTY LINE
PROPERTY LINE
PRODUCT LINE TRENCH
PRODUCT LINE TRENCH
0 15'
SCALE
AOP
COP
DOP
BOP
(A)
(C)
(D)
(B)
AF
CP
DF
BF
ENLARGEMENT OF GASOLINE AND DIESEL STORAGE TANK PIT
TANK (A) 10,000 GALLON GASOLINE TANK
TANK (B) 10,000 GALLON DIESEL TANK
TANK (C) 10,000 GALLON GASOLINE TANK
TANK (D) 10,000 GALLON GASOLINE TANK
TANK (WO) 500 GALLON WASTE OIL TANK
0 10'
SCALE
F
(WO)
ENLARGEMENT OF WASTE OIL STORAGE TANK PIT

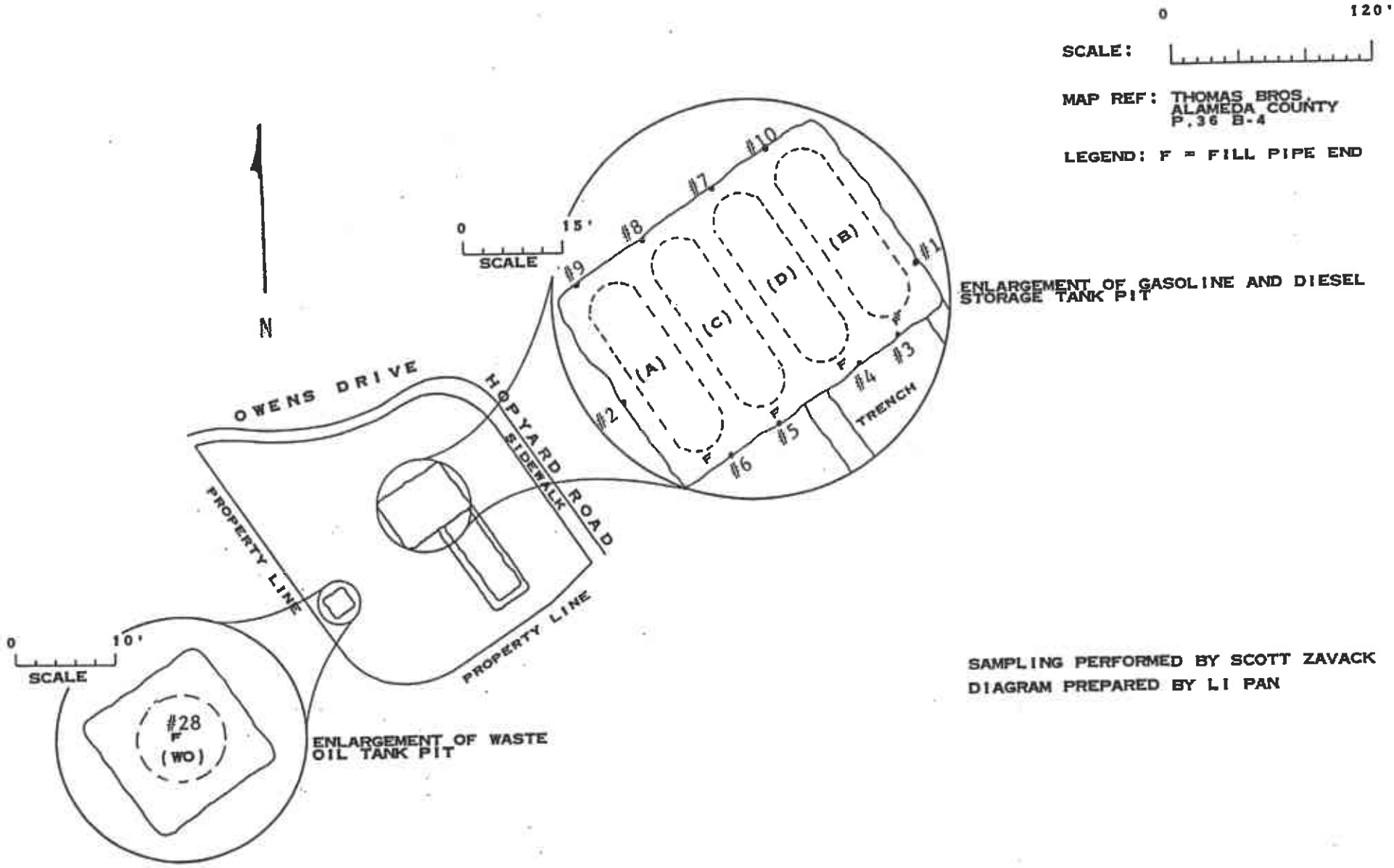


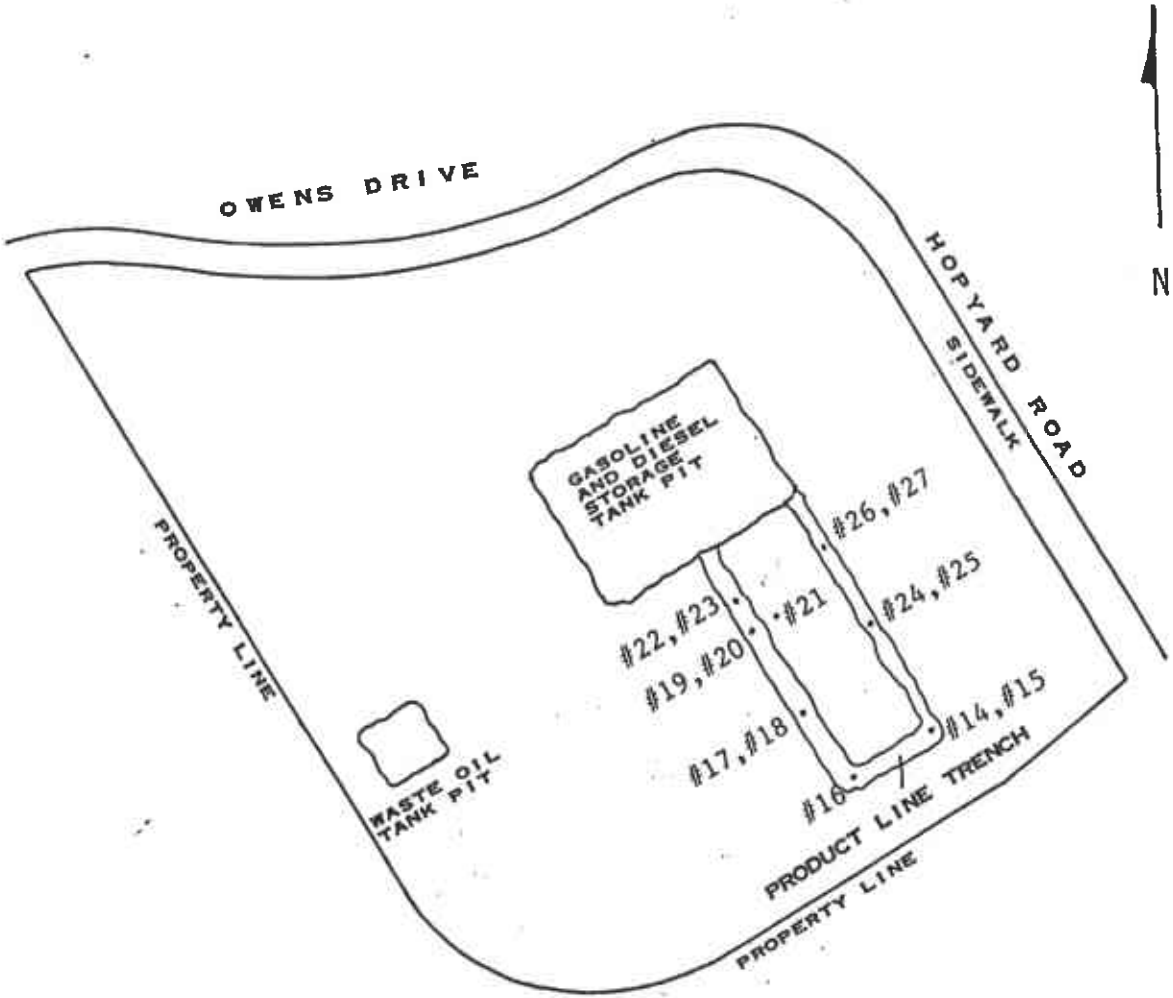
SCALE: 0 80'

MAP REF: THOMAS BROS., ALAMEDA COUNTY P, 36 B-4

SAMPLING PERFORMED BY SCOTT ZAVACK

DIAGRAM PREPARED BY LI PAN


0
120'
SCALE:
MAP REF: THOMAS BROS., ALAMEDA COUNTY P.36 B-4
LEGEND: F = FILL PIPE END
N
OWENS DRIVE
HOPYARD ROAD
SIDEWALK
PROPERTY LINE
PROPERTY LINE
0
15'
SCALE
#1
#2
#3
#4
#5
#6
#7
#8
#9
#10
(A)
(B)
(C)
(D)
F
TRENCH
ENLARGEMENT OF GASOLINE AND DIESEL STORAGE TANK PIT
0
10'
SCALE
#28
F
(WO)
ENLARGEMENT OF WASTE OIL TANK PIT
SAMPLING PERFORMED BY SCOTT ZAVACK
DIAGRAM PREPARED BY LI PAN

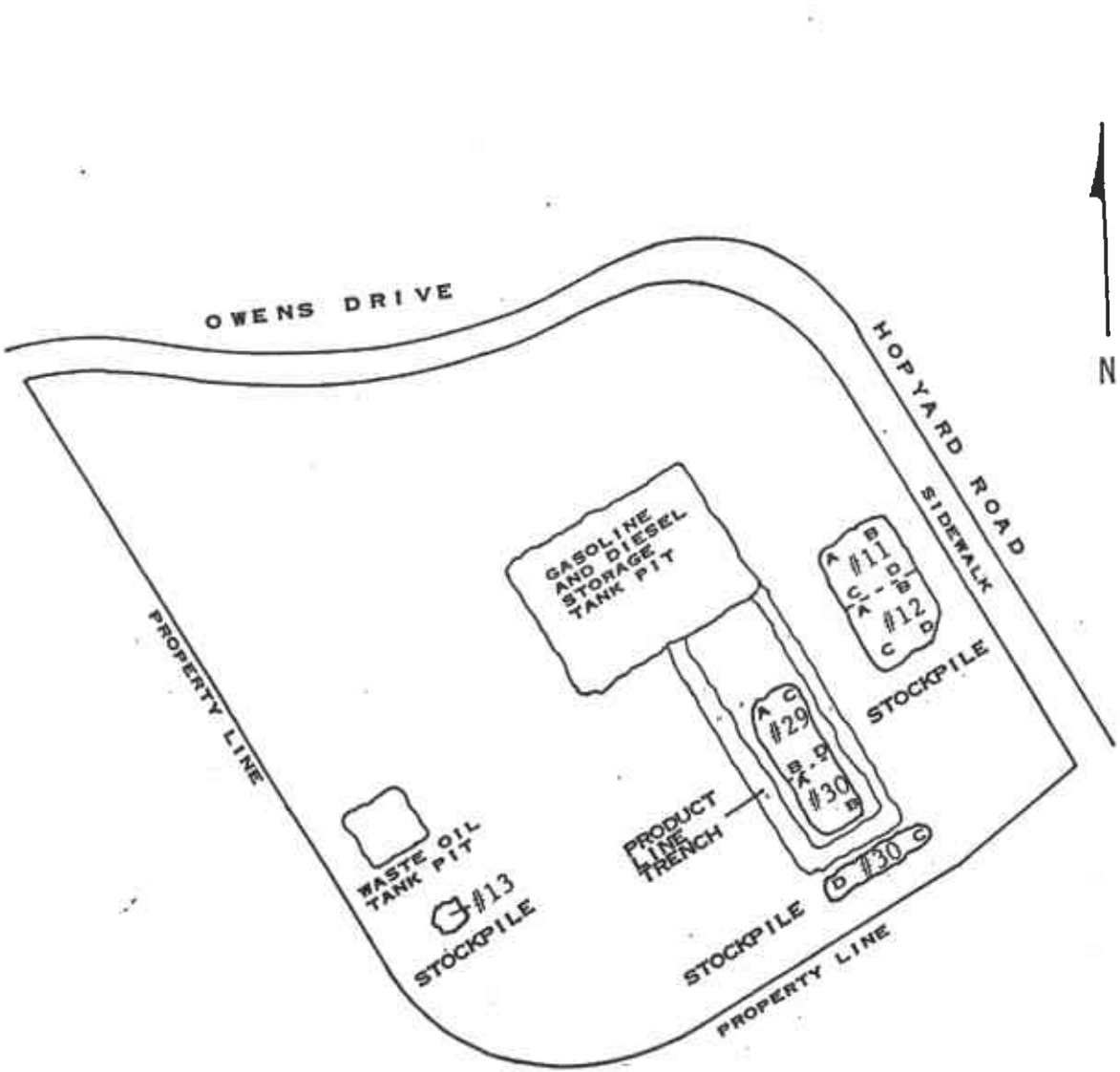


SCALE: 0 80'

MAP REF: THOMAS BROS. ALAMEDA COUNTY P.36 B-4

SAMPLING PEROFRMED BY SCOTT ZAVACK

DIAGRAM PREPARED BY LI PAN



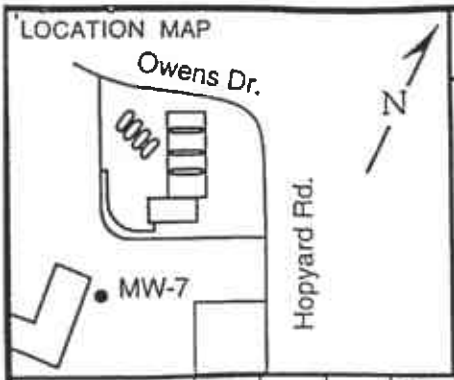
SCALE: 0 80'

MAP REF: THOMAS BROS., ALAMEDA COUNTY P.36 B-4

SAMPLING PERFORMED BY SCOTT ZAVACK

DIAGRAM PREPARED BY LI PAN

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

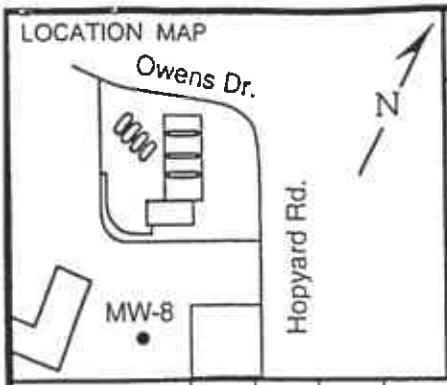
WELL NO. MW-7
PAGE 1 OF 1

PROJECT NO. 320-164.1B
LOGGED BY: T.B.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD
CASING TYPE: SCH 40 PVC
SLOT SIZE: 0.020"
SAND PACK: 2 X 12 SAND

CLIENT: CHEVRON
DATE DRILLED: 5-5-97
LOCATION: 5280 Hopyard Rd., Pleasanton
HOLE DIAMETER: 8"
HOLE DEPTH: 21.5'
WELL DIAMETER: 2"
WELL DEPTH: 20'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1			CL	ASPHALT SILTY CLAY: dark brown; medium plasticity; 80-90% silt and clay; 10-20% sand; dense; no product odor.
	Dp			2				
				3				
				4				
				5			CL	CLAY: dark brown; medium plasticity; 90% silt and clay; 10% fine to medium sand; very stiff; no product odor.
	Dp		27	6				
BENTONITE				7				
				8				
				9				
	Mst		24	10				@10': as above; dark brown; medium plasticity; 95% silt and clay; 5% sand; very stiff.
				11				
				12				
				13				
				14				
	Wt		17	15				@15': as above.
				16			SC	CLAYEY SAND: very dark grayish brown; 45% silt and clay; 55% sand; medium dense; no product odor.
				17				
				18				
				19			CL	SANDY CLAY: dark brown; medium plasticity; 70% silt and clay; 30% sand; stiff; no product odor.
SAND	Wt		13	20				
				21				
SLOUGH				22				BOTTOM OF BORING AT 21.5'

LOCATION MAP

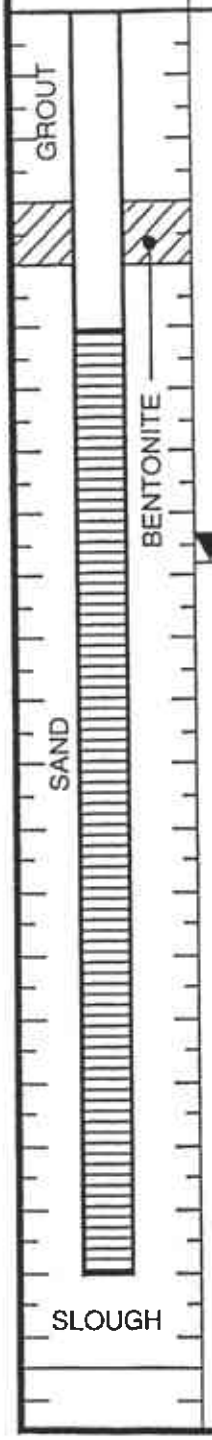


PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-8
PAGE 1 OF 1

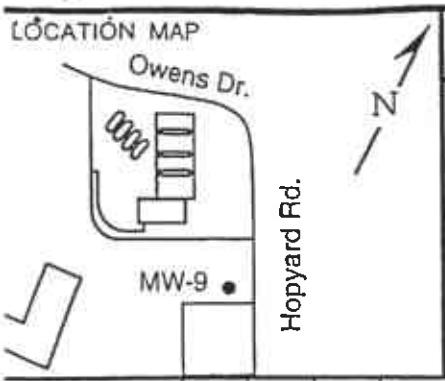
PROJECT NO. 320-164.1B
LOGGED BY: T.B.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD
CASING TYPE: SCH 40 PVC
SLOT SIZE: 0.020"
SAND PACK: 2 X 12 SAND

CLIENT: CHEVRON
DATE DRILLED: 5-5-97
LOCATION: 5280 Hopyard Rd., Pleasanton
HOLE DIAMETER: 8"
HOLE DEPTH: 21.5'
WELL DIAMETER: 2"
WELL DEPTH: 20'
CASING STICKUP: NA



MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
			1			CL	ASPHALT SILTY CLAY: dark brown; moderate plasticity; 90% silt and clay; 8% medium sand; 2% fine subrounded gravel; no product odor.
Dp			2				
			3				
			4			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.
		29	5				
			6				
			7				
			8				
			9				
Mst		17	10				@10': very dark brown; moderate plasticity; 90% silt and clay; 5% medium to fine sand; 5% gravel; very stiff; no product odor.
			11				
			12				
			13				
			14				
Wt		12	15				@15': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel; stiff; no product odor.
			16				
			17				
			18				
			19				
Wt		20	20				@20': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel.
			21				
			22				BOTTOM OF BORING AT 21.5'

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-9
PAGE 1 OF 1

PROJECT NO. 320-164.1B
LOGGED BY: T.B.
DRILLER: MDE
DRILLING METHOD: HSA
SAMPLING METHOD: CALMOD
CASING TYPE: SCH 40 PVC
SLOT SIZE: 0.020"
SAND PACK: 2 X 12 SAND

CLIENT: CHEVRON
DATE DRILLED: 5-5-97
LOCATION: 5280 Hopyard Rd., Pleasanton
HOLE DIAMETER: 8"
HOLE DEPTH: 21.5'
WELL DIAMETER: 2"
WELL DEPTH: 20'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1			CL	ASPHALT CLAY: dark yellowish brown; moderate plasticity; 95% clay and silt; 5% fine to medium sand; trace gravel.
				2				
				3				
				4				
	Mst		19	5				@5': very dark brown; moderate plasticity; 95% silt and clay; trace sand; 5% fine gravel; very stiff.
BENTONITE				6				
				7				
				8				
				9				
	Mst		19	10				@10': dark brown; moderate plasticity; 95% silt and clay; 5% sand; trace fine gravel; very stiff.
				11				
				12				
				13				
				14				
	Wt		17	15				@15': dark grayish brown; moderate plasticity; 98% silt and clay; 2% medium sand; trace fine gravel; very stiff.
				16				
				17				
				18				
				19				
SAND	Wt		25	20				@20': grayish brown; moderate plastiicty; 97% silt and clay; 2% sand; very stiff.
				21				
SLOUGH				22				BOTTOM OF BORING AT 21.5'

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

Chevron Service Station 9-0917
5280 Hopyard Road
Pleasanton, California

Well Number	Sample Depth (feet)	Date Sampled	TPPH as Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MTBE (ppm)
MW-7	5	05/05/97	ND	ND	ND	ND	ND	ND
	10.5		ND	ND	ND	ND	ND	ND
MW-8	5.5	05/05/97	ND	ND	ND	ND	ND	ND
	10.5		ND	ND	ND	ND	ND	ND
MW-9	5	05/05/97	ND	ND	ND	ND	ND	ND
	10		ND	ND	ND	ND	ND	ND

TPPH = Total purgeable petroleum hydrocarbons
MTBE = Methyl tertiary-butyl ether
ppm = Parts per million
ND = Not detected
See certified analytical reports for detection limits.

COOPER TESTING LABS

MOISTURE DENSITY - POROSITY DATA SHEET

Job #	049-024
Client	Pacific Environmental
Project/Location	320-164.1B
Date	5/15/97

Boring #	MW-8	MW-8	MW-7		
Depth (ft)	6	11	16		
Soil Type	black CLAY w/sand	grayish brown CLAY w/sand	grayish brown clayey SAND		
Specific Gravity	2.71	2.71	2.71		
Volume Total cc	282.774	287.645	131.467		
Volume of Solids	163.224	170.468	84.054		
Volume of Voids	119.550	117.177	47.413		
Void Ratio	0.732	0.687	0.564		
Porosity %	42.3%	40.7%	36.1%		
Saturation %	98.4%	98.2%	97.0%		
Moisture %	26.6%	24.9%	20.2%		
Dry Density (pcf)	97.7	100.3	108.2		

Remarks

Specific Gravity
ASTM D-854

Cooper Testing Lab

Job#: 049-024a
Client: Pacific Environmental
Project: 320-164-1B

Date: 05/15/97
By: DC

Boring:	MW-8	MW-8	MW-7			
Sample:						
Depth, ft.:	6	11	16			
Soil Classification: (visual)	blck CLAY w/sand	gray brown CLAY w/sand	grayish brown clayey SAND			
Wt. of Pycnometer Soil & Water, gm:	700.8	721.2	707.6			
Temp. centigrade:	22	23	23			
Wt. of Pycnometer & Water, gm:	671.35	671.24	662.58			
Wt. Dry Soil, gm:	46.72	79.2	71.31			
Temp. Correction Factor:	1	1	1			
Specific Gravity:	2.71	2.71	2.71	ERR	ERR	ERR

Remarks: The temperature correction factor is shown as 1 if the weight of the pycnometer is taken from the lab temperature correction curve.

Organic Content
ASTM D2974

Cooper Testing Lab

JOB NO.: 049-024 CLIENT: Pacific Environmental PROJECT 320-164-1B			DATE: 05/12/97 BY: DC		
BORING: SAMPLE: DEPTH, ft.:	MW-7 16	MW-8 6	MW-8 11		
SOIL CLASSIFICATION: (visual)	gray brown clayey SAND	black CLAY with sand	gray brown CLAY with sand		
SOIL, ORGANICS & DISH, gm:	159.61	126.14	121.38		
SOIL & DISH, gm:	158.08	124.07	119.92		
DISH, gm:	82.68	84.55	81.93		
SOIL, gm:	75.4	39.52	37.99	0	0
SOIL & ORGANICS, gm:	76.93	41.59	39.45	0	0
% ORGANICS:	2.0	5.0	3.7	ERR	ERR