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Jennifer C. Sedlachek
Project Manager

ExxonMobil
Refining & Supply

June 27, 2005

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

RE: Former Exxon RAS #7-0205/5399 Clayton Road, Concord, California.

Dear Mr. Leyva:

Attached for your review and comment is a letter report entitled ***Request for Case Closure,*** dated June 27, 2005, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California, and details closure activities at the subject site.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: ERI's Request for Case Closure, dated June 27, 2005.

cc: w/ attachment
Ms. Sue Lloyd, Contra Costa County Health Services, Hazardous Materials Program
Mr. Joseph A. Aldridge, Valero Energy Corporation

w/o attachment
Ms. Janice A. Jacobson, Environmental Resolutions, Inc.

ERI

ENVIRONMENTAL RESOLUTIONS, INC.

June 27, 2005
ERI 217014.R08

Ms. Jennifer C. Sedlachek
ExxonMobil Refining & Supply – Global Remediation
4096 Piedmont Avenue, #194
Oakland, California 94611

Subject: Request for Case Closure, Former Exxon Service Station 7-0205, 5399 Clayton Road, Concord, California.

RB Case No. 07-0811 (GLV)

Ms. Sedlachek:

At the request of Exxon Mobil Corporation (Exxon Mobil), Environmental Resolutions, Inc. (ERI) has prepared this request for case closure for the subject site. This report summarizes the site history; previous investigations; geology and hydrogeology; site conditions; sensitive receptor survey; and an evaluation of potential environmental risk with respect to residual and dissolved-phase hydrocarbon concentrations in soil and groundwater with respect to the Regional Water Quality Control Board, San Francisco Bay Region (the Regional Board) environmental screening levels (RWQCB, 2005). The Regional Board's Site Closure Summary form is included as Attachment A.

BACKGROUND

The site is located on the northwest corner of the intersection of Clayton Road and Kirker Pass Road, in Concord, California, as shown on the Site Vicinity Map (Plate 1). The locations of the existing underground storage tanks (USTs), dispenser islands, and other select site features are shown on the Generalized Site Plan (Plate 2).

The site was owned and operated by Texaco Oil Corporation (Texaco) from the early 1960s to 1988. Exxon Mobil acquired the property in 1988; however, Texaco retained responsibility for the environmental investigation and quarterly groundwater monitoring and sampling until 1998, at which time Exxon Mobil assumed responsibility. In April 2000, Exxon Mobil transferred ownership of the property and associated UST system to Valero Energy Corporation (Valero). Currently, the site is operating as an active Valero-branded service station.

SUMMARY OF INVESTIGATIONS

Environmental assessments were conducted at the site following the discovery of impacted soil beneath the former used-oil tank in 1986. Case closure was granted by the Regional Board (Attachment B) in 1999. The case was re-opened in 2000, when methyl tertiary butyl ether (MTBE) was discovered in groundwater. A summary of activities is listed below.

- Between June and September 1986, one 550-gallon gasoline used-oil tank, four 4,000-gallon single-walled, fiberglass gasoline and diesel USTs; and associated product lines were removed (GTI, 1987).

601 North McDowell Boulevard, Petaluma, California 94954 707-766-2000 FAX 707-789-0414
Lake Forest • Petaluma • Seattle • Phoenix

- In March 1987, four 10,000-gallon double-walled, fiberglass USTs; one 1,000-gallon used-oil tank; and associated product piping were installed. Groundwater Technology, Inc. (GTI) installed one groundwater monitoring well (MW1) adjacent to the used-oil tank (GTI, 1987). Total hydrocarbons were detected at a concentration of 1.1. milligrams per kilogram (mg/Kg) at 14.5 feet below ground surface (bgs).

- In April 1988, GTI conducted a soil-gas survey at the site and soil gas samples (SG1 through SG11) were collected (GTI, 1988). Total volatiles hydrocarbons were detected at a maximum concentration of 5 parts per million by volume (ppmv) (SG1) in soil gas. Total petroleum hydrocarbons as gasoline (TPHg) were detected at concentrations of 4 mg/Kg and 6 mg/Kg in the soil samples collected from SG2 and SG11, respectively.

- Between June and July 1988, GTI installed four groundwater monitoring wells (MW2 through MW5) and initiated a quarterly monitoring and sampling program (GTI, 1988). A maximum concentration of TPHg was detected at 27 mg/Kg in soil (MW3, 23.5' and MW4, 9').

- In November 1991, EA Engineering, Science, and Technology (EA) observed the replacement of the dispensers and product piping and collected closure samples from the product lines (PL1 through PL4) (EA, 1991). The single-walled fiberglass piping was replaced with double-walled piping and a leak detection system was installed. Approximately 50 cubic yards of soil was generated during the replacement of the dispensers and product piping. The soil was profiled and disposed of at the Chem Waste landfill in Kettleman, California.

- GTI conducted quarterly groundwater monitoring and sampling until 1992. RESNA Industries (RESNA) performed quarterly groundwater monitoring and sampling from 1992 through 1993. EA began quarterly groundwater monitoring and sampling for Exxon Mobil in January 1994.

- In September 1995, a request for closure (EA, 1995) was submitted to the Contra Costa County Health Services Department (the County) and the Regional Board.

- Between April and July 1997, five groundwater monitoring wells (MW1 through MW5) were destroyed during station remodeling (EA, 1997a). Well abandonment was approved by the County. The used-oil UST was removed and product piping was replaced along the dispenser islands (EA 1997b). Concentrations of total petroleum hydrocarbons as diesel (TPHd) were detected beneath the used-oil UST. Approximately 150 cubic yards of soil were generated during well destruction and UST, product piping, and dispenser island removal and replacement activities. Three 55-gallon drums of rinsate water were generated during well destruction activities. The soil was profiled and disposed of at BFI-Vasco Road Landfill in Livermore, California. The water was profiled and disposed of at a disposal facility in Long Beach, California.

- In October 1998, EA submitted a Site Information Summary Form for Closure to the Regional Board (EA, 1998).

- In November and December 1998, a baseline environmental subsurface investigation was conducted by EA to determine whether petroleum hydrocarbons were present in soil and groundwater underlying the site (EA, 1999). Three soil samples (B1 through B3) were drilled to between 28 and 30 feet below ground surface (bgs). Benzene was detected in one soil sample at a concentration of 2.4 mg/Kg (B3, 24'), and TPHg and MTBE were detected at maximum concentrations of 930 mg/Kg (B3, 24') and 0.15 mg/Kg (B1, 25.5'), respectively in soil. Benzene was detected in one grab groundwater sample at a concentration of 91 micrograms per liter (µg/L) (B3); TPHg was detected at a maximum concentration of 30,000 µg/L (B3); and MTBE was detected at a maximum concentration of 3,200 µg/L (by EPA Method 8260) (B2).

- In January 1999, case closure was granted by the Regional Board in a letter dated January 20, 1999. A copy of the letter is presented as Attachment B.

In April 2000, Exxon Mobil transferred ownership of the property and associated UST system to Valero, at which time Valero conducted environmental investigations to assess the site conditions at the time of the property transfer. Exxon Mobil subsequently installed three groundwater monitoring wells and initiated quarterly groundwater monitoring and sampling at the site. A description of activities since 2000 is presented below.

- In April 2000, ERI observed field operations conducted by Environ Corporation (Environ) and Precision Sampling Incorporated (Precision). Field operations included the attempted advancement of four soil borings (70205-1/SB1 through 70205-4/SB4). Precision was unable to advance past 17.5 feet bgs in the first soil boring because of mechanical problems with the drilling rig. Environ rescheduled the drilling activities with Kehoe Testing and Engineering (Kehoe).

- In May 2000, Kehoe advanced four soil borings (70205-1/SB1 through 70205-4/SB4) using direct-push technology to collect grab groundwater samples under Environ's direction (Environ, 2000). Split groundwater samples were collected by both ERI and Environ at three locations. Samples could not be collected at the fourth location (70205-4/SB4) because it was dry. Concentrations of MTBE ranging between 79 µg/L and 5,900 µg/L were detected in the groundwater samples (ERI, 2000). As a result of this investigation, Exxon Mobil submitted an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report.

- In July 2001, ERI observed Woodward Drilling Co. drill and install three groundwater monitoring wells (MW6 through MW8) (ERI, 2001). Dillard Environmental Services, under direct contract to Exxon Mobil, transported eight 55-gallon drums of soil to Republic Landfill in Livermore, California, on October 11, 2001. Three 55-gallon drums of rinsate and well development water from drilling activities were transported by Service Stations Systems Incorporated of San Jose, California, under direct contract to Exxon Mobil, and disposed of at Crosby and Overton, Incorporated of Long Beach, California on September 21, 2001.

Currently there are three groundwater monitoring wells (MW6 through MW8) at the site. Groundwater monitoring and sampling is performed on a quarterly basis.

GEOLOGY AND HYDROGEOLOGY

Regional Geology

The site is located in northern Contra Costa County, near the southern portion of Clayton Valley. The Clayton Valley is a northwest-southeast trending elongate structural depression located within the California Coast Ranges Geomorphic Province. The northern part of this part of the Coast Ranges, an area known as the Briones Hills, bounds the valley to the west. To the south is Mount Diablo, which is located at the northern end of the Diablo Range, a structurally controlled upland area (Dibblee and Darrow, 1981).

The site is located on a gently sloping alluvial fan composed of unconsolidated Quaternary alluvium and semi-consolidated Tertiary-Quaternary deposits of clays, sands, and gravels. The alluvium is unconformably underlain at shallow depths by the Pleistocene Pittsburg Formation and Cretaceous-aged Moreno shale and Panoche Formation sandstone and shale that crop out in the nearby upland areas (Dibblee and Darrow, 1981).

Regional Hydrogeology

The unconsolidated to semi-consolidated alluvium in the valley is the main groundwater-bearing zone in the Clayton Valley and Ygnacio Valley Groundwater Basins (DWR, 2003). Groundwater occurs here under unconfined conditions. The alluvial aquifer is recharged by runoff from adjacent highlands and seepage from local streams. The nearest surface water body is Mt. Diablo Creek, which is located approximately one-quarter mile north of the site and flows in a northwesterly direction to Hastings Slough, which flows to Suisun Bay.

Local Geology

Soil borings from most recent investigation were used to evaluate subsurface conditions. Soil boring logs are provided in Attachment C. In general the site is underlain by clay to silty clay from 4 feet bgs to between 15.5 feet bgs and 20 feet bgs. Beneath the fine-grained unit at well locations MW6 and MW8, a relatively higher permeable unit composed of clayey sand/silty sand/sand to clayey gravel was encountered to depths between 27 feet bgs and 33 feet bgs. Clayey silt was encountered beneath the higher permeable sands and gravels to 35 feet bgs, the total depth explored. At well location MW7, clayey silt was encountered from 20 to 25 feet bgs underlain by a silty clay to 35 feet bgs.

Local Hydrogeology

Quarterly groundwater monitoring and sampling was performed at the site from July 1988 through September 1993 and July 1994 through April 1995 when wells MW1 through MW5 were destroyed. Since August 2001, following the installation of wells MW6 through MW8, quarterly groundwater monitoring and sampling has been conducted. A groundwater contour map from the February 23, 2005 groundwater monitoring event is shown on Plate 3. Cumulative groundwater monitoring and sampling data are presented in Tables 1A and 1B. Based on recent quarterly monitoring and sampling data, groundwater levels fluctuate between 22 and 24 feet bgs. The historical groundwater flow direction has generally been towards the west-northwest, as shown on a rose diagram presented on Plate 3. Hydrographs for groundwater monitoring wells MW6 through MW8 showing groundwater elevations over the past four years are presented on Graphs 1 through 3, respectively.

SITE CONDITIONS

Residual Constituent Concentrations in Soil

In July 2001, ERI observed the installation of groundwater monitoring wells MW6 through MW8. Soil samples were collected from the borings and analyzed for TPHd, TPHg, MTBE, and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Based on the analytical results, TPHd was present in a soil samples collected from boring MW6 at 20 feet bgs at a concentration of 2.2 mg/Kg. Total xylenes were detected in a soil sample collected from boring MW8 at a concentration of 0.0022 mg/Kg. Concentrations of TPHg, MTBE, benzene, toluene and ethylbenzene were not detected at or above laboratory reporting limits in any of the soil samples collected during this investigation. Soil sample locations and concentrations are illustrated on Plate 4. Analytical results of soil samples are provided in Table 2.

Dissolved Constituent Distribution in Groundwater

In May 2000, groundwater samples were collected from soil borings SB1 through SB3. Concentrations of TPHd were detected in the groundwater samples collected from borings SB1 and SB3 at 85 µg/L and 69 µg/L respectively, and concentrations of MTBE were detected in groundwater samples collected from borings SB1 through SB3 at 79 µg/L, 5,400 µg/L, and 5,900 µg/L, respectively. Concentrations of BTEX constituents were not detected at or above laboratory detection limits in any of the groundwater samples. Analytical results of groundwater samples collected from soil borings are provided in Table 3.

Analytical results of groundwater samples collected from monitoring wells MW6 through MW8 have shown decreasing concentration trends for dissolved-phase hydrocarbons (Graph 1 through Graph 3). This trend indicates natural attenuation is occurring. Cumulative results of laboratory analyses of groundwater samples collected from monitoring wells during quarterly monitoring and sampling events are provided in Tables 1A and 1B. Isoconcentration maps showing the concentrations of dissolved TPHg, benzene, and MTBE detected in groundwater samples collected during the February 23, 2005 groundwater monitoring and sampling event are illustrated on Plate 5 through 7.

SENSITIVE RECEPTOR SURVEY

The original sensitive receptor survey (SRS) was completed in 2001. ERI reviews and updates the SRS data annually. The most recent SRS update for the site was February 11, 2005. The SRS update included a file review, a utility survey, and a field reconnaissance, to identify potential preferential pathways along which groundwater might travel, and sensitive receptors that the groundwater might impact.

Underground Utilities

The results of the underground utility search revealed that electrical, gas, water, phone, sewer, and storm drain lines are located beneath Ygnacio Valley Road and Clayton Road. The approximate locations of the underground utilities located on and adjacent to the subject site are shown on Plate 8. ERI personnel observed four utility vaults located on the sidewalk adjacent to the site, as shown on Plate 8. The search also identified four storm drain inlets: two are located on site in planters and two are located in the driveways entering the site.

Municipal and Private Water Wells

Mr. Mark Seedall of the Contra Costa County Water District confirmed that they do own or operate municipal wells and that the site is located in their service area (personal communication, June 17, 2005). The SRS also included a record search of the Department of Water Resources (DWR) well registration archive within a 2000-foot radius of the site. The well search revealed one irrigation well located approximately 1,700 feet northwest of the site. The location of the irrigation well is shown on Plate 9. During field observations, four monitoring wells were noted at the Shell service station located upgradient and immediately east of the site.

Surface Water Bodies

Mount Diablo Creek is located approximately 800 feet north of the site.

POTENTIAL ENVIRONMENTAL RISK ASSESSEMENT

To provide an evaluation of potential environmental risk, ERI compared residual and dissolved-phase hydrocarbon concentrations in soil and groundwater samples to environmental screening levels (ESLs) compiled by the Regional Board (RWQCB, 2005).

The evaluation was conducted using conservative screening parameters. For residual-phase hydrocarbons in soil, ERI compared deep soil (> 3 meters bgs) ESLs applicable to sites where groundwater is not a current source of drinking water and land use is residential and commercial. ESLs for soil quality are summarized in Table 2.

Comparison of selected ESLs for soil sources indicate:

- Residual hydrocarbon concentrations in soil do not exceed the ESLs for direct exposure.

- Residual hydrocarbon concentrations in soil do not exceed the ESLs for potential vapor intrusion to residential or commercial buildings.

- Residual hydrocarbon concentrations in soil do not exceed ESLs for groundwater protection (soil leaching) for non-drinking water sources.

- Residual hydrocarbon concentrations in soil were three orders of magnitude below the stated ESLs for potential vapor intrusion to residential or commercial buildings.

For dissolved-phase hydrocarbons in groundwater, ERI compared final groundwater ESLs applicable to sites where groundwater is not a current source of drinking water and land use is residential and commercial. ESLs for groundwater quality are summarized in Table 1A, Table 1B, and Table 3.

Comparison of selected ESLs for groundwater quality indicate:

- Dissolved-phase petroleum hydrocarbon concentrations in groundwater samples collected from groundwater monitoring wells MW6 through MW8 and soil borings SB1 through SB3 do not exceed the ESL limits for potential vapor intrusion to residential or commercial buildings.

- Dissolved-phase petroleum hydrocarbon concentrations in groundwater samples collected from groundwater monitoring wells MW6 through MW8 and soil boring SB1 do not exceed the ESL limits for aquatic life protection with the exception of TPHg. The laboratory began including MTBE in its TPHg result beginning in 2002 which coincides with when TPHg was first detected in well MW6.

- MTBE concentrations in historical groundwater samples collected from soil borings SB2 and SB3 in May 2000 exceeded the ESL for aquatic life protection; however, subsequent monitoring and sampling of well MW6 show that MTBE concentrations have decreased to below the ESL for aquatic life protection. MTBE concentrations have been consistently below the ESL for aquatic life protection.

CONCLUSIONS

ERI recommends no further action and case closure for the subject site based on analytical results of soil and groundwater samples collected during environmental investigations and quarterly monitoring and sampling, and the results of Environmental Risk Assessment. The historical trend of decreasing concentrations of petroleum hydrocarbons in groundwater indicate natural attenuation is occurring, and supports no further action.

Case closure should be granted for the site based on the following criteria:

- Residual-phase hydrocarbon concentrations in soil are confined to a few isolated areas and have been adequately delineated.

- Residual-phase hydrocarbon concentrations in soil do not exceed the ESLs for potential vapor intrusion to residential or commercial buildings.

- Residual-phase hydrocarbon concentrations in soil do not exceed the ESLs for direct exposure.

- Residual-phase hydrocarbon concentrations in soil do not exceed ESLs for groundwater protection (soil leaching) for non-drinking water sources.

- Dissolved-phase hydrocarbon concentrations in groundwater monitoring wells MW6 through MW8 show a decreasing trend, which indicates that natural attenuation is occurring.

- Dissolved-phase hydrocarbon concentrations in groundwater do not exceed the ESL limits for potential vapor intrusion to residential or commercial buildings.

- Dissolved-phase petroleum hydrocarbon concentrations in groundwater do not exceed the ESL limits for aquatic life protection with the exception of TPHg. However, the laboratory began including MTBE in its TPHg result beginning in 2002, which coincides with when TPHg was first detected in well MW6. The laboratory does not distinguish TPHg from MTBE.

- MTBE concentrations in MW6 have decreased to below the ESL for aquatic life protection, and concentrations in MW7 and MW8 have been consistently below that ESL. The closest surface water body is Mount Diablo Creek, which is located approximately 800 feet north of the site. The ESLs for aquatic life protection assumes no dilution upon discharge to the water body. Due to the distance of the creek from the site, aquatic habitat protection ESLs would presumably not be exceeded. Based on current MTBE concentrations and the distance to Mount Diablo Creek, it is highly unlikely the ESL will be exceeded.

RECOMMENDATIONS

Based on the cumulative results of environmental investigations, quarterly groundwater monitoring and sampling, and evaluation of ESLs for residential and commercial land use, ERI recommends no further action and case closure for the subject site.

DOCUMENT DISTRIBUTION

ERI recommends that a copy of the attached recommendation for case closure be forwarded to:

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

Ms. Sue Lloyd
Contra Costa County Health Services Department
Environmental Health Division
4333 Pacheco Boulevard
Martinez, California 94553

Mr. Joseph A. Aldridge
Valero Energy Corporation
685 West Third Street
Hanford, California 93230

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 Exxon Mobil, and any reliance on this report by third parties shall be at such party's sole risk.

Please call Ms. Janice A. Jacobson, ERI's project manager for this site, at (707) 766-2000 if you have any questions regarding this report.

Sincerely,
Environmental Resolutions, Inc.

for
Jennifer L. Lady
Senior Staff Scientist

for
Heidi Dieffenbach-Carle
P.G. 6793

PROFESSIONAL GEOLOGIST
JOHN BAILEY BOBBITT
No. 4313
EXP. 4-30-06
STATE OF CALIFORNIA

SCANNED IMAGE

Attachments: References

Table 1A:	Cumulative Groundwater Monitoring and Sampling Data
Table 1B:	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2:	Cumulative Analytical Laboratory Results of Soil Samples
Table 3:	Laboratory Results of Groundwater Samples in Soil Borings
Table 4:	Results of Well Survey
Plate 1:	Site Vicinity Map
Plate 2:	Generalized Site Plan
Plate 3:	Groundwater Elevation Map
Plate 4:	Residual Hydrocarbon Concentrations in Soil
Plate 5:	TPHg Isoconcentration Map
Plate 6:	MTBE Isoconcentration Map
Plate 7:	Benzene Isoconcentration Map
Plate 8:	Underground Utilities Map
Plate 9:	Sensitive Receptor Map
Graph 1:	Hydrograph - MW6
Graph 2:	Hydrograph - MW7
Graph 3:	Hydrograph - MW8
Attachment A:	Site Closure Summary
Attachment B:	Regulatory Correspondence
Attachment C:	Unified Soil Classification System and Symbol Key, and Soil Boring Logs

REFERENCES

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TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California
(Page 1 of 6)

Well ID # (TOC)	Sampling Date	DTW (feet)	GW Elev. (feet)	TPHd	TPHg	MTBE 8020-8021B	MTBE 8260B	B	T	E	X
					<----------	ug/L	---------->				
MW1	09/10/87	24.73	-125.26	---	<1	---	---	1.2	1.0	<0.3	<0.6
(100.53)	10/29/87	24.52	-125.05	---	2,300	---	---	35	<PQL	<PQL	120
	07/11/88	24.59	-125.12	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	12/16/88	27.19	-127.72	---	310	---	---	1	<PQL	<PQL	<PQL
	03/28/89	23.81	-124.34	---	120	---	---	<PQL	<PQL	<PQL	<PQL
	06/21/89	24.54	-125.07	---	18	---	---	<PQL	<PQL	<PQL	<PQL
	09/29/89	25.70	-126.23	---	39	---	---	<PQL	<PQL	<PQL	<PQL
	12/20/89	25.87	-126.40	---	130	---	---	2	<PQL	<PQL	<PQL
	03/26/90	25.51	-126.04	---	86	---	---	<PQL	<PQL	<PQL	<PQL
	06/14/90	24.69	-125.22	---	28	---	---	<0.3	<0.3	<0.3	<0.6
	09/13/90	27.01	-127.54	---	85	---	---	<0.3	<0.3	<0.3	<0.6
	12/03/90	DRY	DRY	---	---	---	---	--	--	--	--
	03/04/91	DRY	DRY	---	---	---	---	--	--	--	--
	06/03/91	25.90	-126.43	---	97	---	---	<0.3	<0.3	<0.3	<0.6
	09/05/91	29.07	-129.60	---	78	---	---	<0.3	<0.3	<0.3	<0.6
	12/03/91	DRY	DRY	---	---	---	---	--	--	--	--
	03/04/92	26.02	-126.55	---	<10	---	---	<0.3	<0.3	<0.3	<0.5
	06/16/92	26.91	-127.44	---	290	---	---	0.6	10	<0.5	<0.5
	09/28/92	29.00	-129.53	---	---	---	---	--	--	--	--
	12/28/92	28.00	-128.53	---	---	---	---	--	--	--	--
	03/30/93	22.70	-123.23	---	200	---	---	<0.5	2.5	<0.5	2.7
	06/11/93	22.63	-123.16	---	140	---	---	<0.5	<0.5	<0.5	4.2
	09/29/93	26.06	-126.59	---	100	---	---	<0.5	<0.5	<0.5	<0.5
	07/15/94	26.38	-126.91	---	55	---	---	<0.5	<0.5	<0.5	<0.5
	10/14/94	27.95	-128.48	---	---	---	---	---	---	---	---
	01/04/95	24.81	-125.34	---	150	---	---	<0.5	<0.5	<0.5	<0.5
	04/04/95	20.99	-121.52	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	Well destroyed										
MW2	07/11/88	23.70	75.30	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
(99)	12/16/88	26.23	72.77	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	03/28/89	22.98	76.02	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	06/21/89	23.69	75.31	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	09/29/89	24.74	74.26	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	12/20/89	24.99	74.01	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	03/26/90	24.64	74.36	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	06/14/90	23.51	75.49	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	09/13/90	26.14	72.86	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	12/03/90	25.71	73.29	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	03/04/91	24.54	74.46	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	06/03/91	25.06	73.94	---	---	---	---	--	--	--	--
	09/05/91	28.01	70.99	---	---	---	---	--	--	--	--
	12/03/91	29.93	69.07	---	---	---	---	--	--	--	--

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California
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Well ID # (TOC)	Sampling Date	DTW (feet)	GW Elev. (feet)	TPHd	TPHg	MTBE 8020-8021B	MTBE 8260B	B	T	E	X
					<----------	ug/L	---------->				
MW2 (cont.)	03/04/92	24.97	74.03	—	440	—	—	<0.3	0.7	0.4	5
(99)	06/16/92	25.93	73.07	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	09/28/92	28.78	70.22	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	12/28/92	26.80	72.20	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	03/30/93	22.20	76.80	—	<50	—	—	0.7	<0.5	0.6	4.0
	06/11/93	21.92	77.08	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	09/29/93	25.04	73.96	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	07/15/94	25.64	73.36	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	10/14/94	26.95	72.05	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/04/95	23.83	75.17	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	04/04/95	20.55	78.45	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	Well destroyed										
MW3	07/11/88	24.81	75.19	—	36	—	—	<PQL	<PQL	<PQL	<PQL
(100)	12/16/88	27.35	72.65	—	63	—	—	<PQL	<PQL	<PQL	<PQL
	03/28/89	24.15	75.85	—	19	—	—	<PQL	<PQL	<PQL	<PQL
	06/21/89	24.83	75.17	—	9	—	—	<PQL	<PQL	<PQL	<PQL
	09/29/89	25.88	74.12	—	29	—	—	<PQL	<PQL	<PQL	<PQL
	12/20/89	26.08	73.92	—	4	—	—	<PQL	<PQL	<PQL	<PQL
	03/26/90	25.80	74.20	—	<PQL	—	—	<PQL	<PQL	<PQL	<PQL
	06/14/90	24.66	75.34	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	09/13/90	27.27	72.73	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	12/03/90	26.86	73.14	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	03/04/91	25.79	74.21	—	<1	—	—	<0.3	<0.3	<0.3	<0.6
	06/03/91	26.15	73.85	—	<10	—	—	<0.3	<0.3	<0.3	<0.6
	09/05/91	29.06	70.94	—	71	—	—	<0.3	<0.3	<0.3	<0.6
	12/03/91	31.04	68.96	—	220	—	—	<0.3	<0.3	<0.3	<0.5
	03/04/92	26.23	73.77	—	220	—	—	1	<0.3	<0.3	<0.5
	06/16/92	27.02	72.98	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	09/28/92	29.90	70.10	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	12/28/92	28.17	71.83	—	52	—	—	<0.5	<0.5	<0.5	<0.5
	03/30/93	23.55	76.45	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	06/11/93	22.88	77.12	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	09/29/93	26.11	73.89	—	59	—	—	2.5	2.6	1.3	5.5
	07/15/94	26.70	73.30	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	10/14/94	28.07	71.93	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/04/95	25.01	74.99	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	04/04/95	21.60	78.40	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	Well destroyed										

TABLE 1A
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Former Exxon Service Station 7-0205
5399 Clayton Road
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Well ID # (TOC)	Sampling Date	DTW (feet)	GW Elev. (feet)	TPHd	TPHg	MTBE 8020-8021B	MTBE 8260B	B	T	E	X
					<---ug/L--->						
MW4	07/11/88	24.69	983.31	---	260	---	---	45	<PQL	<PQL	<PQL
(100)	12/16/88	27.28	980.72	---	71	---	---	7	<PQL	<PQL	<PQL
	03/28/89	23.95	984.05	---	20	---	---	11	<PQL	<PQL	<PQL
	06/21/89	24.66	983.34	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	09/29/89	25.78	982.22	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	12/20/89	25.95	982.05	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	03/26/90	25.64	982.36	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	06/14/90	24.52	983.48	---	<1	---	---	0.6	<0.3	<0.3	<0.6
	09/13/90	27.20	980.80	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	12/03/90	26.80	981.20	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	03/04/91	25.64	982.36	---	<1	---	---	1	<0.3	<0.3	<0.6
	06/03/91	26.09	981.91	---	<10	---	---	<0.3	<0.3	<0.3	<0.6
	09/05/91	29.22	978.78	---	71	---	---	3	<0.3	<0.3	<0.7
	12/03/91	31.24	976.76	---	100	---	---	6	<0.3	<0.3	1
	03/04/92	26.13	981.87	---	18	---	---	<0.3	<0.3	<0.3	<0.5
	06/16/92	27.06	980.94	---	76	---	---	3.7	2.2	<0.5	1.3
	09/28/92	30.08	977.92	---	56	---	---	1.1	<0.5	<0.5	1.9
	12/28/92	28.10	979.90	---	160	---	---	2.8	0.6	1.9	3.5
	03/30/93	23.15	984.85	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	06/11/93	22.81	985.19	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	09/29/93	26.14	981.86	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	07/15/94	26.68	981.32	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	10/14/94	28.12	979.88	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	01/04/95	24.86	983.14	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	04/04/95	21.38	986.62	---	<50	---	---	<0.5	<0.5	<0.5	<0.5
	Well destroyed										
MW5	07/11/88	24.63	76.14	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
(100.77)	12/16/88	27.28	73.49	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	03/28/89	24.01	76.76	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	06/21/89	24.63	76.14	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	09/29/89	25.83	74.94	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	12/20/89	25.99	74.78	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	03/26/90	25.70	75.07	---	<PQL	---	---	<PQL	<PQL	<PQL	<PQL
	06/14/90	24.54	76.23	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	09/13/90	27.21	73.56	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	12/03/90	26.83	73.94	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	03/04/91	25.75	75.02	---	<1	---	---	<0.3	<0.3	<0.3	<0.6
	06/03/91	26.04	74.73	---	<10	---	---	<0.3	<0.3	<0.3	<0.6
	09/05/91	29.18	71.59	---	<10	---	---	<0.3	<0.3	<0.3	<0.6
	12/03/91	31.25	69.52	---	<10	---	---	<0.3	<0.3	<0.3	<0.6
	03/04/92	26.29	74.48	---	60	---	---	<0.3	<0.3	<0.3	<0.6
	06/16/92	27.03	73.74	---	<50	---	---	<0.3	<0.3	<0.3	<0.6

TABLE 1A
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Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California

Well ID # (TOC)	Sampling Date	DTW (feet)	GW Elev. (feet)	TPHd	TPHg	MTBE 8020-8021B	MTBE 8260B	B	T	E	X
					<----------	ug/L	---------->				
MW5 (cont.)	09/28/92	NM	NM	—	—	—	—	—	—	—	—
(100.77)	12/28/92	28.25	72.52	—	—	—	—	—	—	—	—
	03/30/93	23.02	77.75	—	—	—	—	—	—	—	—
	06/11/93	22.68	78.09	—	—	—	—	—	—	—	—
	09/29/93	26.02	74.75	—	—	—	—	—	—	—	—
	07/15/94	26.60	74.17	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	10/14/94	28.14	72.63	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	01/04/95	25.00	75.77	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	04/04/95	21.28	79.49	—	<50	—	—	<0.5	<0.5	<0.5	<0.5
	Well destroyed										
MW6	08/24/01	28.30	283.64	<50	<50	7,400	3,600	<0.5	<0.5	<0.5	<0.5
(311.94)	10/18/01	27.32	284.62	<50	<50	8,200b	—	<0.5	<0.5	<0.5	<0.5
	01/02/02	Well surveyed in compliance with AB 2886 requirements									
	01/17/02	24.90	287.04	<50.0	1,320	2,940	—	<0.50	<0.50	<0.50	<0.50
	04/16/02	25.44	286.50	<50	2,000	2,970	—	<0.50a	<0.50a	<0.50a	<0.50a
	07/16/02	26.98	284.96	<57	4,080	2,650	—	<0.50	<0.50	<0.50	<0.50
	10/18/02	28.45	283.49	<50	2,090	3,570	—	<0.50	<0.50	<0.50	<0.50
	01/28/03	24.98	286.96	<50	<50.0	1,350	1,350	<0.50	<0.50	<0.50	<0.50
	04/15/03	24.39	287.55	<48	1,100	1,810	—	<0.50	<0.50	<0.50	<0.50
	07/09/03	25.32	286.62	c	c	c	c	c	c	c	c
	08/15/03	26.14	285.80	<50	1,850	2,300	—	<0.50	<0.50	<0.50	<0.50
	10/03/03	26.85	285.09	<50	2,290	—	1,760	<0.50	<0.50	<0.50	<0.50
	01/13/04	25.10	286.84	<50	372	—	551	<0.50	<0.50	<0.50	<0.50
	05/07/04	25.05	286.89	<50	538	—	1,200	<0.50	<0.50	<0.50	<0.50
	08/06/04	25.43	286.51	<50	1,120	—	1,390	<0.50	<0.50	<0.50	<0.50
	12/31/04	24.95	286.99	<50	462	—	527	<0.50	<0.50	<0.50	<0.50
	02/23/05	**23.67**	**288.27**	**<50**	**513**	**—**	**750**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
MW7	08/24/01	25.11	286.55	<50	<50	<2	3c	<0.5	1	<0.5	<0.5
(311.66)	10/18/01	26.20	285.46	<50	<50	<5	—	<0.5	<0.5	<0.5	<0.5
	01/02/02	Well surveyed in compliance with AB 2886 requirements									
	01/17/02	23.57	288.09	132	165	182	—	<0.50	<0.50	<0.50	<0.50
	04/16/02	23.55	288.11	<50	<50.0	1.70	—	<0.50a	<0.50a	<0.50a	<0.50a
	07/16/02	25.85	285.81	<56	<50.0	<0.50	—	<0.50	<0.50	<0.50	<0.50
	10/18/02	27.42	284.24	<50	<50.0	<0.50	—	<0.50	<0.50	<0.50	<0.50
	01/28/03	23.65	288.01	<50	<50.0	—	1.80	<0.50	<0.50	<0.50	<0.50
	04/15/03	23.11	288.55	<48	<50.0	<0.50	—	<0.50	<0.50	<0.50	<0.50
	07/09/03	24.08	287.58	c	c	c	c	c	c	c	c

TABLE 1A
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5399 Clayton Road
Concord, California
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Well ID # (TOC)	Sampling Date	DTW (feet)	GW Elev. (feet)	TPHd	TPHg	MTBE 8020-8021B	MTBE 8260B	B	T	E	X
					<----------	ug/L	---------->				
MW7 (cont.)	08/15/03	24.95	286.71	<50	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
(311.66)	10/03/03	25.70	285.96	<50	<50.0	---	<0.50	<0.50	<0.50	<0.50	<0.50
	01/13/04	23.81	287.85	<50	52.8	---	1.20	<0.50	<0.50	<0.50	<0.50
	05/07/04	23.73	287.93	<50	<50.0	---	1.20	1.40	1.00	1.80	4.40
	08/06/04	25.23	286.43	<50	<50.0	---	<0.50	<0.50	<0.50	<0.50	<0.50
	12/31/04	24.70	286.96	<50	<50.0	---	3.20	<0.50	<0.50	<0.50	<0.50
	02/23/05	**22.31**	**289.35**	**<50**	**109**	**---**	**46.1**	**6.40**	**2.00**	**2.40**	**4.00**
MW8	08/24/01	26.78	285.82	<50	<50	<2	<5	<0.5	2.5	<0.5	<0.5
(312.60)	10/18/01	27.80	284.80	<50	<50	<5	---	<0.5	<0.5	<0.5	<0.5
	01/02/02	Well surveyed in compliance with AB 2886 requirements									
	01/17/02	22.92	289.68	<50.0	<50.0	0.7	---	<0.50	<0.50	<0.50	<0.50
	04/16/02	26.09	286.51	<50	<50.0	<0.50	---	<0.50a	<0.50a	<0.50a	<0.50a
	07/16/02	27.50	285.10	<54	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
	10/18/02	28.94	283.66	<50	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
	01/28/03	25.35	287.25	<50	<50.0	---	<0.50	<0.50	<0.50	<0.50	<0.50
	04/15/03	24.79	287.81	<48	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
	07/09/03	25.79	286.81	c	c	c	c	c	c	c	c
	08/15/03	26.63	285.97	<50	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
	10/03/03	27.31	285.29	<50	<50.0	---	0.70	<0.50	<0.50	<0.50	<0.50
	01/13/04	25.45	287.15	<50	<50.0	---	<0.50	<0.50	<0.50	<0.50	<0.50
	05/07/04	25.44	287.16	<50	<50.0	---	<0.50	<0.50	<0.50	1.00	2.40
	08/06/04	26.88	285.72	<50	<50.0	---	<0.50	<0.50	<0.50	<0.50	<0.50
	12/31/04	25.28	287.32	<50	<50.0	---	<0.50	<0.50	<0.50	<0.50	<0.50
	02/23/05	**24.03**	**288.57**	**<50**	**<50.0**	**---**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
Environmental Screening Levels:											
Residential Land Use											
Final Groundwater (ESL Table F-1~~b~~ a)				500	500	1,800	1,800	46	130	290	100
Vadose Zone - Low Permeability (ESL Table E-1a):				NA	NA	45,000	45,000	1,900	530,000	170,000	160,000
Commercial / Industrial Land Use:											
Final Groundwater (ESL Table F-1~~b~~ a)				500	500	1,800	1,800	46	130	290	100
Vadose Zone - Low Permeability (ESL Table E-1a):				NA	NA	150,000	150,000	6,400	530,000	170,000	160,000

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
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5399 Clayton Road
Concord, California

Notes:

PQL	=	Practical quantitative limits, as per EPA Federal Register, 11/03/85, p. 46906 (RESNA, 1988-1990).
Ref	=	3/87 - 6/92 results from Groundwater Technology Inc.; 9/92 - 9/93 results from RESNA Industries, Inc.
TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alchohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ND	=	All analytes not detected at or above laboratory reporting limits; reporting limits vary, see laboratory analysis report for individual limits.
ug/L	=	Micrograms per liter.
—	=	Not measured/Not analyzed.
<	=	Less than the stated reporting limit shown by the laboratory.
a	=	Analyzed using EPA Method 8260B from this date forward.
b	=	Estimated value between MDL and PQL.
c	=	Samples not analyzed due to labortory shipping problem, arrived outside temperature limits.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0205
5399 Clayton Road
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Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol
		<———			ug/L		———>	
MW1	09/10/87 - 04/04/95	Not sampled for these analytes.						
	Well destroyed							
MW2	07/11/88 - 04/04/95	Not sampled for these analytes.						
	Well destroyed							
MW3	07/11/88 - 04/04/95	Not sampled for these analytes.						
	Well destroyed							
MW4	07/11/88 - 12/03/91	Not sampled for these analytes.						
	Well destroyed							
MW5	07/11/88 - 04/04/95	Not sampled for these analytes.						
	Well destroyed							
MW6	08/24/01 - 10/03/03	Not sampled for these analytes.						
	01/13/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—
	05/07/04	<0.50	2.00	<10.0	<0.50	<0.50	<0.50	<50.0
	08/06/04	<0.50	4.20	35.2	<0.50	<0.50	<0.50	<50.0
	12/31/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	02/23/05	**<0.50**	**0.90**	**70.1**	**<0.50**	**<0.50**	**<0.50**	**<100**
MW7	08/24/01 - 10/03/03	Not sampled for these analytes.						
	01/13/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—
	05/07/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	08/06/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	12/31/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	02/23/05	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<100**
MW8	08/24/01 - 10/03/03	Not sampled for these analytes.						
	01/13/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	—
	05/07/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	08/06/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	12/31/04	<0.50	<0.50	<10.0	<0.50	<0.50	<0.50	<50.0
	02/23/05	**<0.50**	**<0.50**	**<10.0**	**<0.50**	**<0.50**	**<0.50**	**<100**

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California

Well ID #	Sampling Date	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol
		<———	———	———	ug/L	———	———>	
Environmental Screening Levels:								
Residential Land Use:								
Final Groundwater (ESL Table F-16):		NA	NA	18,000	150	200	NA	50,000
Vadose Zone - Low Permeability (ESL Table E-1a):		NA	NA	NA	230	490	NA	NA
Commercial / Industrial Land Use:								
Final Groundwater (ESL Table F-16):		NA	NA	18,000	150	200	NA	50,000
Vadose Zone - Low Permeability (ESL Table E-1a):		NA	NA	NA	770	1,700	NA	NA

Notes:

PQL	=	Practical quantitative limits, as per EPA Federal Register, 11/03/85, p. 46906 (RESNA, 1988-1990).
Ref	=	3/87 - 6/92 results from Groundwater Technology Inc.; 9/92 - 9/93 results from RESNA Industries, Inc.
TOC	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alchohol analyzed using EPA Method 8260B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ND	=	All analytes not detected at or above laboratory reporting limits; reporting limits vary, see laboratory analysis report for individual limits.
ug/L	=	Micrograms per liter.
—	=	Not measured/Not analyzed.
<	=	Less than the stated reporting limit shown by the laboratory.
a	=	Analyzed using EPA Method 8260B from this date forward.
b	=	Estimated value between MDL and PQL.
c	=	Samples not analyzed due to labortory shipping problem, arrived outside temperature limits.

TABLE 2
CUMMLATIVE ANALYTICAL LABORATORY RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California
(Page 1 of 1)

Sample ID	Date Collected	Depth (ft bgs)	TPHg	TPHd	MTBE	B	T	E	X
			<.....mg/kg.....>						
Groundwater Monitoring Wells:									
S-15-MW6	7/13/2001	15	<1	<2	<5	<0.001	<0.001	<0.001	<0.001
S-20-MW6	7/13/2001	20	<1	2.2	<5	<0.001	<0.001	<0.001	<0.001
S-15-MW7	7/13/2001	15	<1	<2	<5	<0.001	<0.001	<0.001	<0.001
S-25-MW7	7/13/2001	25	<1	<2	<5	<0.001	<0.001	<0.001	<0.001
S-15-MW8	7/13/2001	15	<1	<2	<5	<0.001	<0.001	<0.001	0.0022
S-20-MW8	7/13/2001	20	<1	<2	<5	<0.001	<0.001	<0.001	<0.001
Environmental Screening Levels (ESLs):									
Residential Land Use (ESL Table D-1):			400	500	2.0	0.18	9.3	32	11
Commerical / Industrial Land Use (ESL Table D-2):			400	500	5.6	0.51	9.3	32	11

Notes:

NA	=	Not applicable.
mg/kg	=	Milligrams per kilogram or parts per million.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020/8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B/8020.
<	=	Not detected at or above the stated laboratory method detection limit.
---	=	Not measured/Not analyzed.
ft bgs	=	Feet below ground surface.
a	=	Unidentified hydrocarbons present.
MW-1	=	Monitoring well #1.
S-15-MW6	=	Soil sample - depth - monitoring well #6.

TABLE 3
ANALYTICAL LABORATORY RESULTS OF GROUNDWATER SAMPLES IN SOIL BORINGS
Exxon Service Station 7-0205
5399 Clayton Road
Concord, California
(Page 1 of 1)

Sample ID	Sample Depth (feet bgs)	Sample Date	TPHd	TPHg	B	T	E	X	MTBE
			<.....ug/L.....>						
W-35-SB1	35	5/4/2000	85	<50	<0.5	<0.5	<0.5	<0.5	85/79b
W-35-SB2	35	5/5/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	5,500/5,400b
W-35-SB3	35	5/5/2000	69	<50	<0.5	<0.5	<0.5	<0.5	6,500/5,900b
Environmental Screening Levels:									
Residential Land Use:									
Final Groundwater (ESL Table F-16):			500	500	46	130	290	100	1,800
Vadose Zone - Low Permeability (ESL Table E-1a):			NA	NA	1,900	530,000	170,000	160,000	45,000
Commercial / Industrial Land Use:									
Final Groundwater (ESL Table F-16):			500	500	46	130	290	100	1,800
Vadose Zone - Low Permeability (ESL Table E-1a):			NA	NA	6,400	530,000	170,000	160,000	150,000

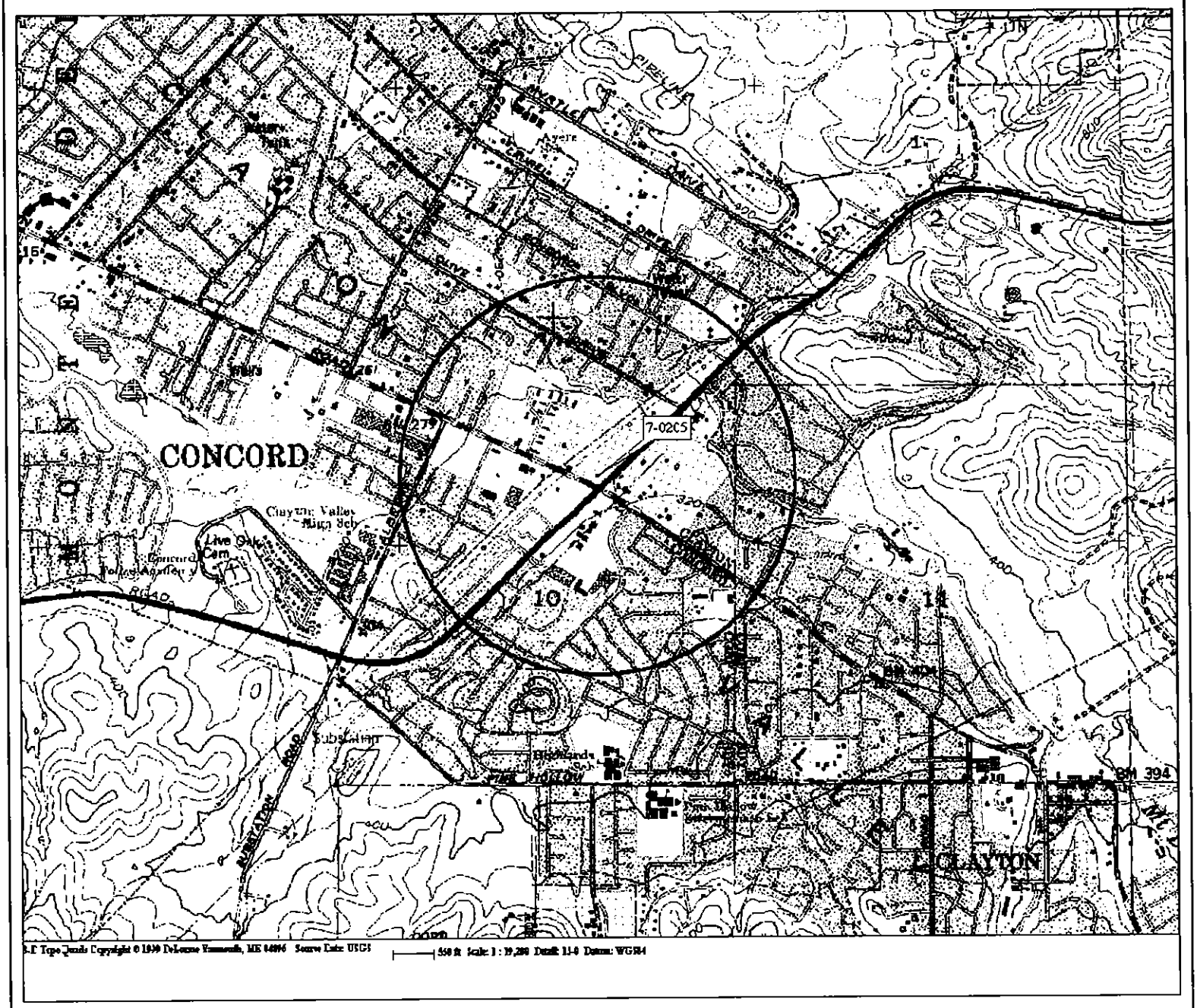
Notes:

B1	=	Boring #1.
B3-P1	=	Boring #3 - perched water.
W-35-SB1	=	Water sample-collected at 35 feet below ground surface-from soil boring 1.
feet bgs	=	Feet below ground surface.
ug/L	=	Micrograms per liter.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015.
TPHg	=	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.
a	=	Unidentified hydrocarbons present on the sampe chromatogram.
b	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
<	=	Not detected at or above the stated laboratory method detection limit.

TABLE 4
RESULTS OF WELL SURVEY
Former Exxon Service Station 7-0205
5399 Clayton Valley Road
Concord, California
(Page 1 of 1)

Plate 4 Callout	Well Owner	Typle of Well	Location	Total Depth (feet bgs)	Date of Well Driller's Report	Screened Interval (feet bgs)
1	Thomas Tracy	Domestic	2 Clark Court, Concord	60	August 8, 1977	40-60
2	Shell Oil Company	Monitoring Wells (MW1 - MW4)	1500 Ygnacio Valley Road	35	February 3, 1990	22-35

Notes:
feet bgs = Feet below ground surface.



EXPLANATION

1/2-mile radius circle

APPROXIMATE SCALE

N

0 0.5 1 mile

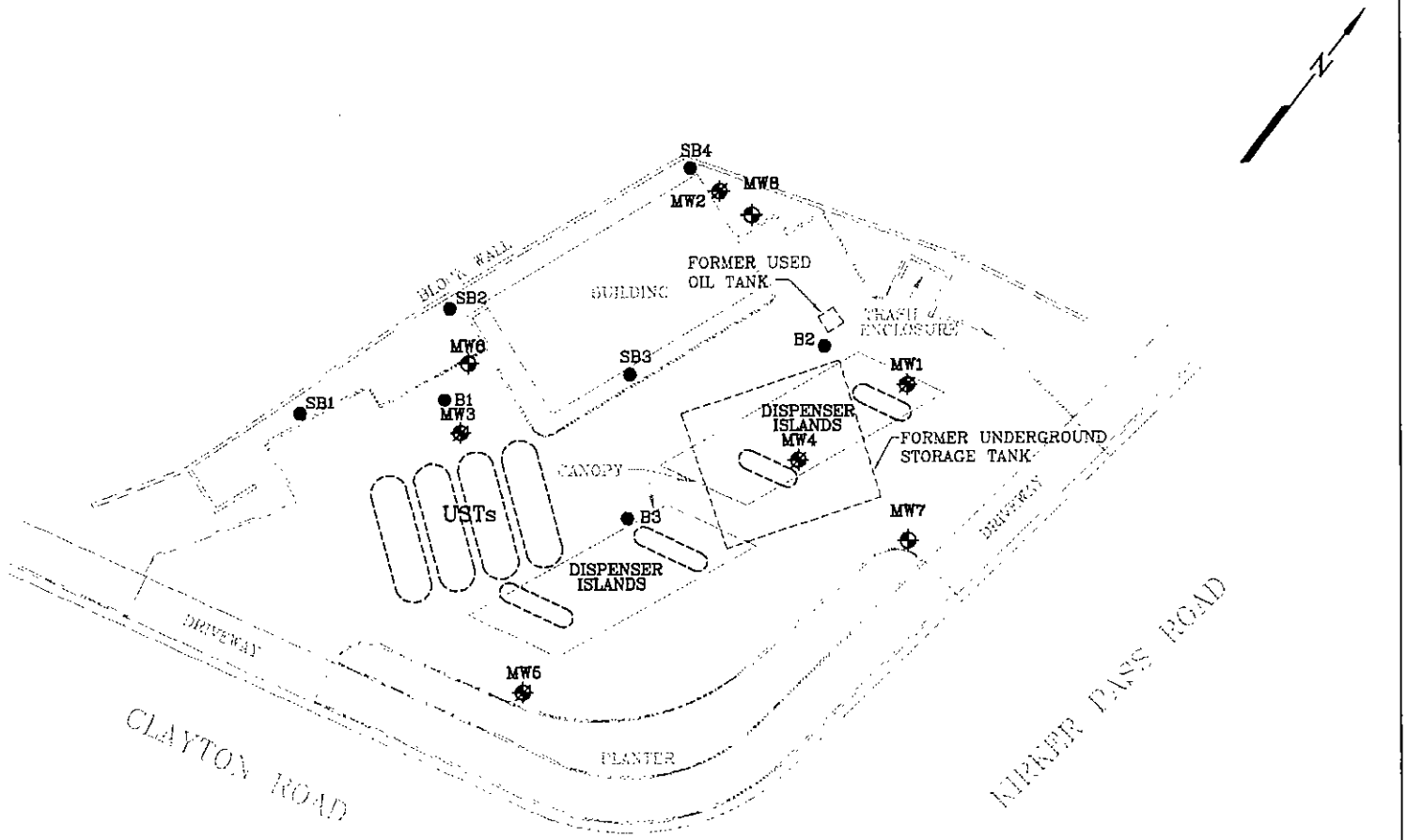
SOURCE:
Modified from a map provided by DeLorme 3-D TopoQuads

ERI ENVIRONMENTAL RESOLUTIONS, INC.

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

PROJECT NO.
2170
PLATE
1



APPROXIMATE SCALE

0 40 80 FEET

SOURCE: Modified from a map provided by Morrow Surveying

FN 21700003

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

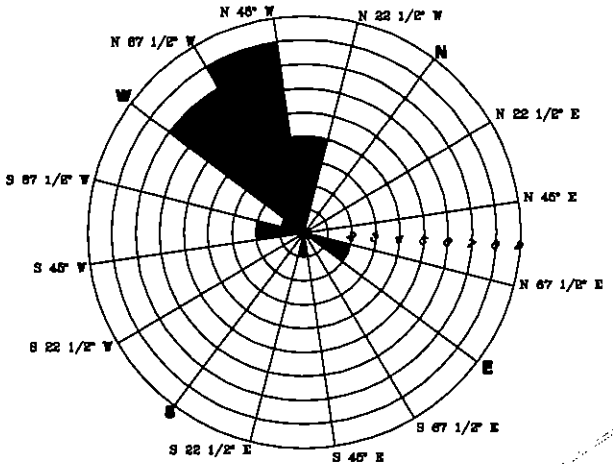
MW8 Groundwater Monitoring Wells

MW5 Destroyed Groundwater Monitoring Well

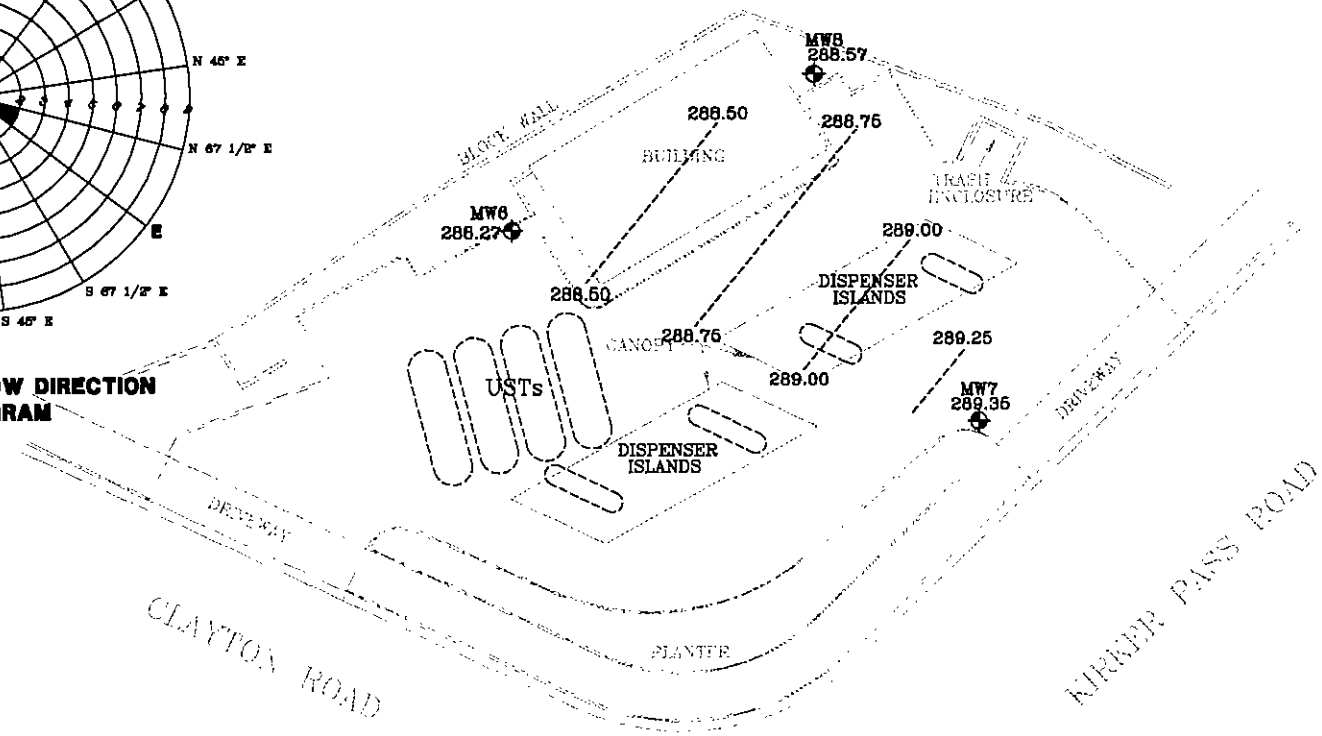
SB4 Soil Boring

PROJECT NO. 2170

PLATE 2



GROUNDWATER FLOW DIRECTION ROSE DIAGRAM



APPROXIMATE SCALE

0 40 80 FEET

SOURCE: Modified from a map provided by Morrow Surveying

FN 21700003_QM

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GROUNDWATER ELEVATION MAP
February 23, 2005

FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

MW8 ⊕ Groundwater Monitoring Wells

288.57 Groundwater elevation in feet; datum is mean sea level

289.25 ---- Line of Equal Groundwater Elevation; datum is mean sea level

PROJECT NO. 2170

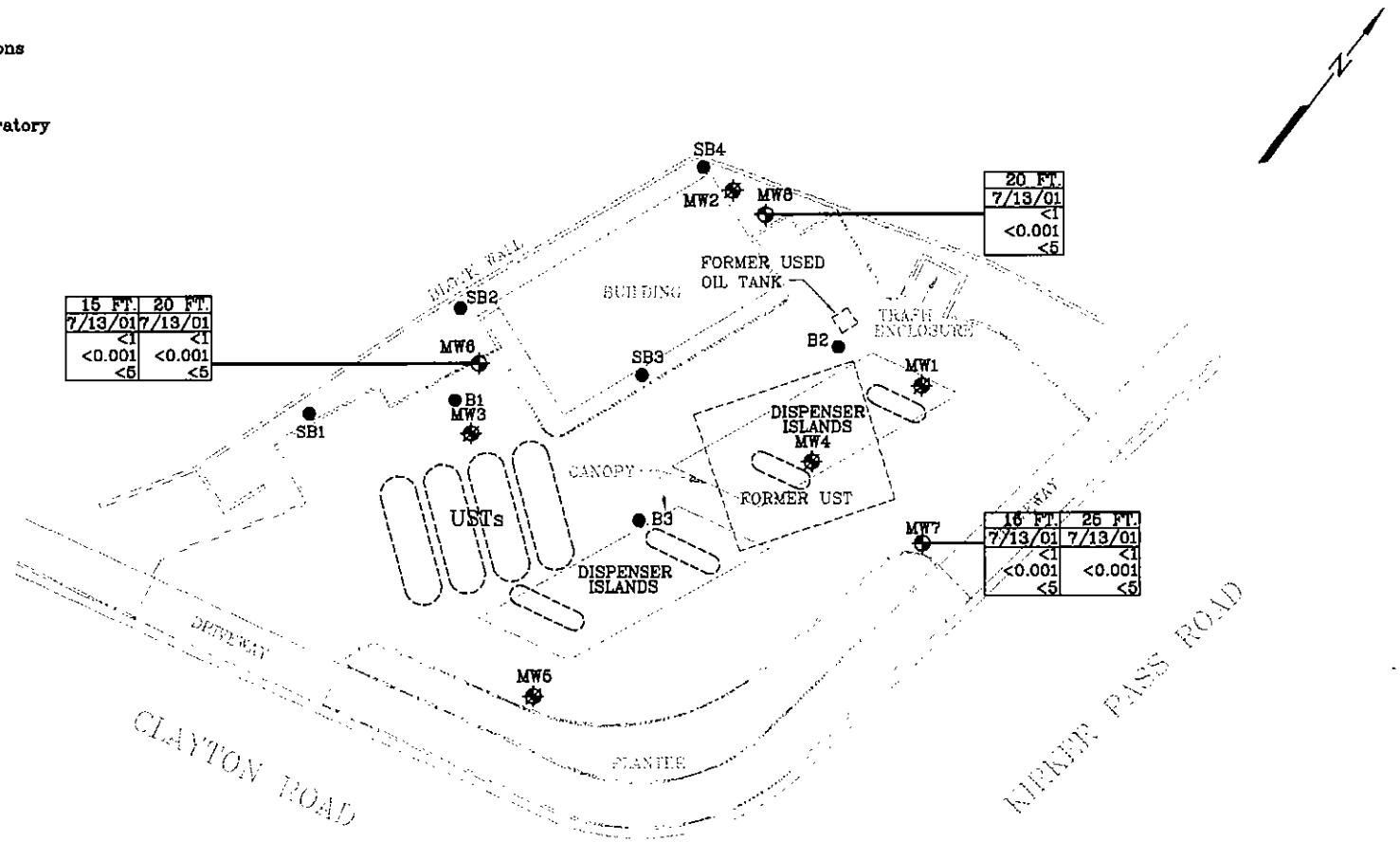
PLATE 3

Analyte Concentrations in ug/L

25 FT.	Sample Depth
7/13/01	Sample Date
<1	Total Petroleum Hydrocarbons as gasoline
<0.001	Benzene
<5	Methyl Tertiary Butyl Ether

< Less Than the Stated Laboratory Reporting Limit

ug/L Micrograms per Liter



APPROXIMATE SCALE

0 40 80 FEET

SOURCE: Modified from a map provided by Morrow Surveying

FN 21700003_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

RESIDUAL HYDROCARBON CONCENTRATIONS IN SOIL

FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

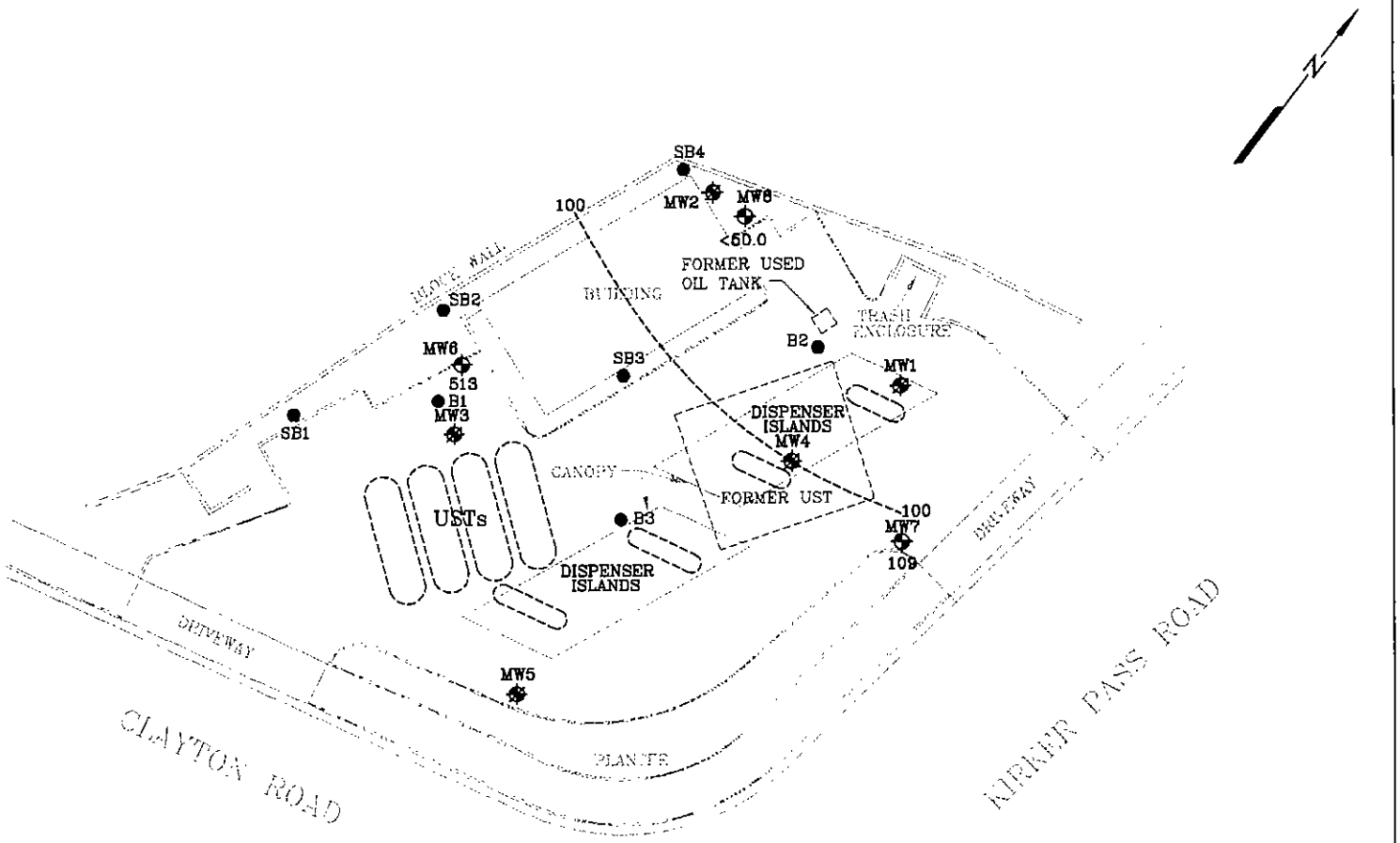
MW8 Groundwater Monitoring Wells

MW6 Destroyed Groundwater Monitoring Well

B3 Soil Boring

PROJECT NO. 2170

PLATE 4



APPROXIMATE SCALE

0 40 80 FEET

SOURCE: Modified from a map provided by Morrow Surveying

100 -----Line of Equal TPHg Concentration (ug/L)

FN 21700003_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

TPHg ISOCONCENTRATION MAP
February 23, 2005

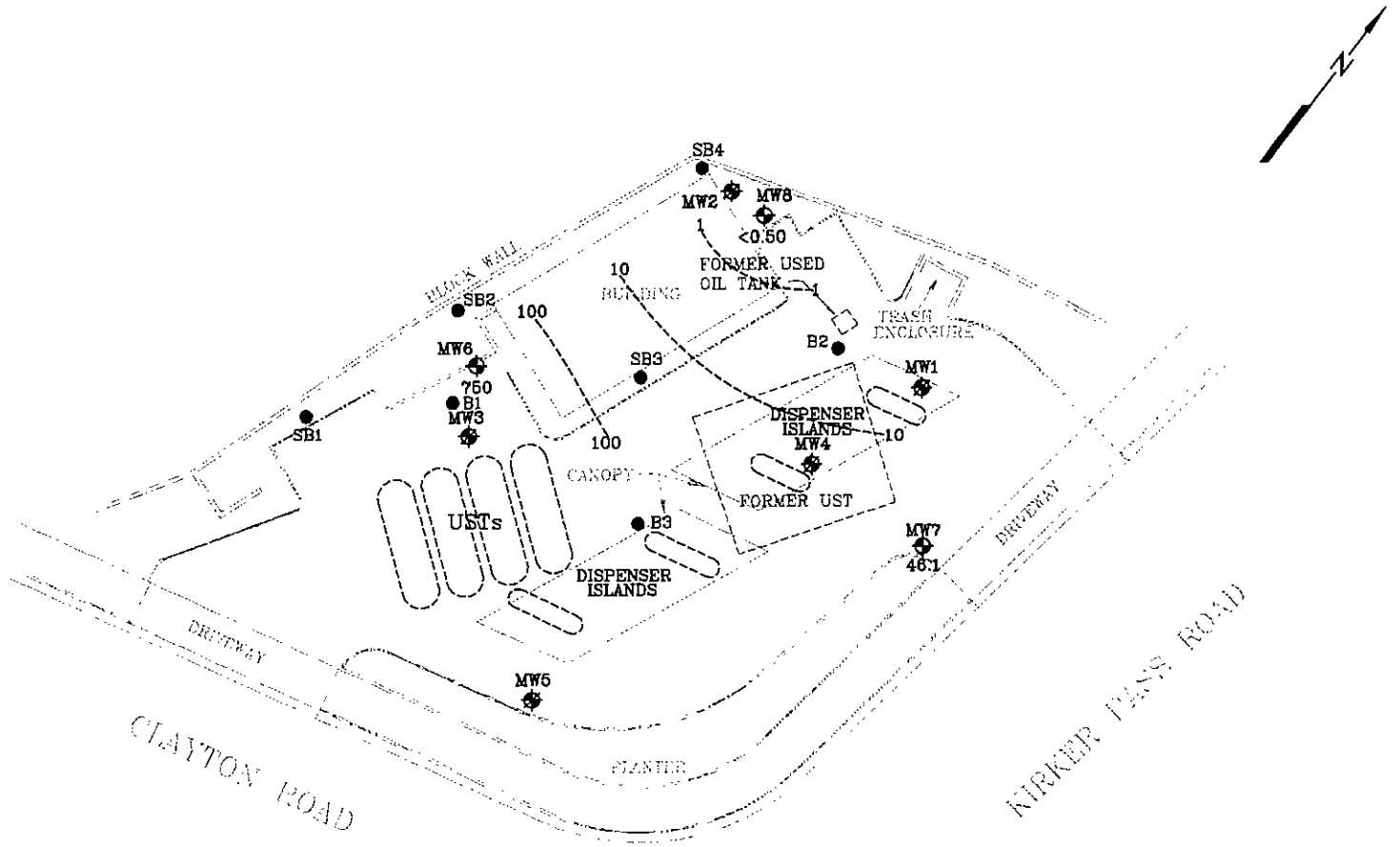
FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

MW8	Groundwater Monitoring Wells
<50.0	Total petroleum hydrocarbons as gasoline (TPHg) concentration (ug/L)
MW6	Destroyed Groundwater Monitoring Well
B3	Soil Boring

PROJECT NO.
2170

PLATE
5



APPROXIMATE SCALE

0 40 80 FEET

SOURCE: Modified from a map provided by Morrow Surveying

100---- Line of Equal MTBE Concentration (ug/L)

FN 21700003_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

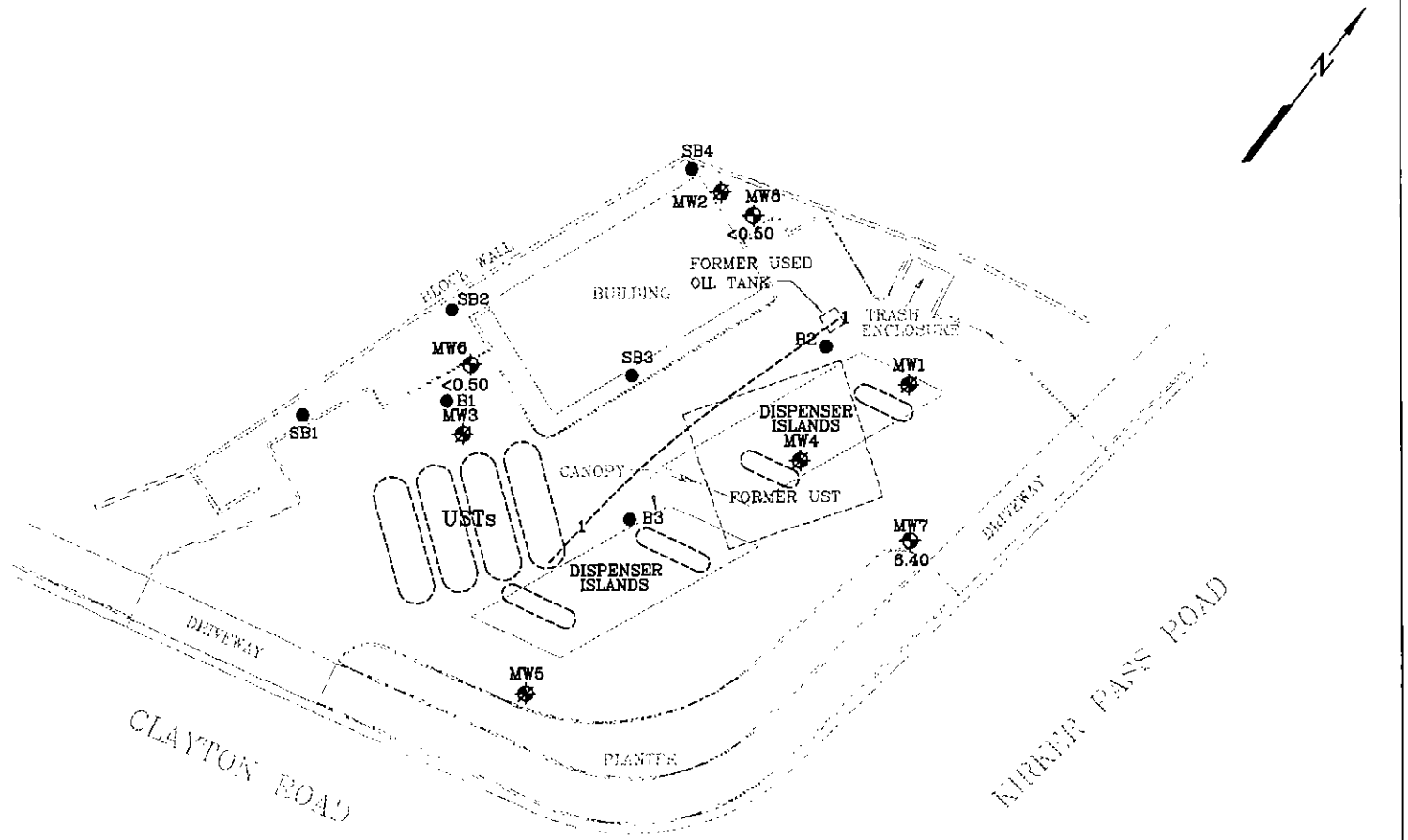
MTBE ISOCONCENTRATION MAP
February 23, 2005
FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

MW8	Groundwater Monitoring Wells
<0.50	Methyl tertiary butyl ether (MTBE) concentration (ug/L)
MW6	Destroyed Groundwater Monitoring Well
B3	Soil Boring

PROJECT NO.
2170

PLATE
6



SOURCE: Modified from a map provided by Morrow Surveying

1-----Line of Equal Benzene Concentration (ug/L)

FN 21700003_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

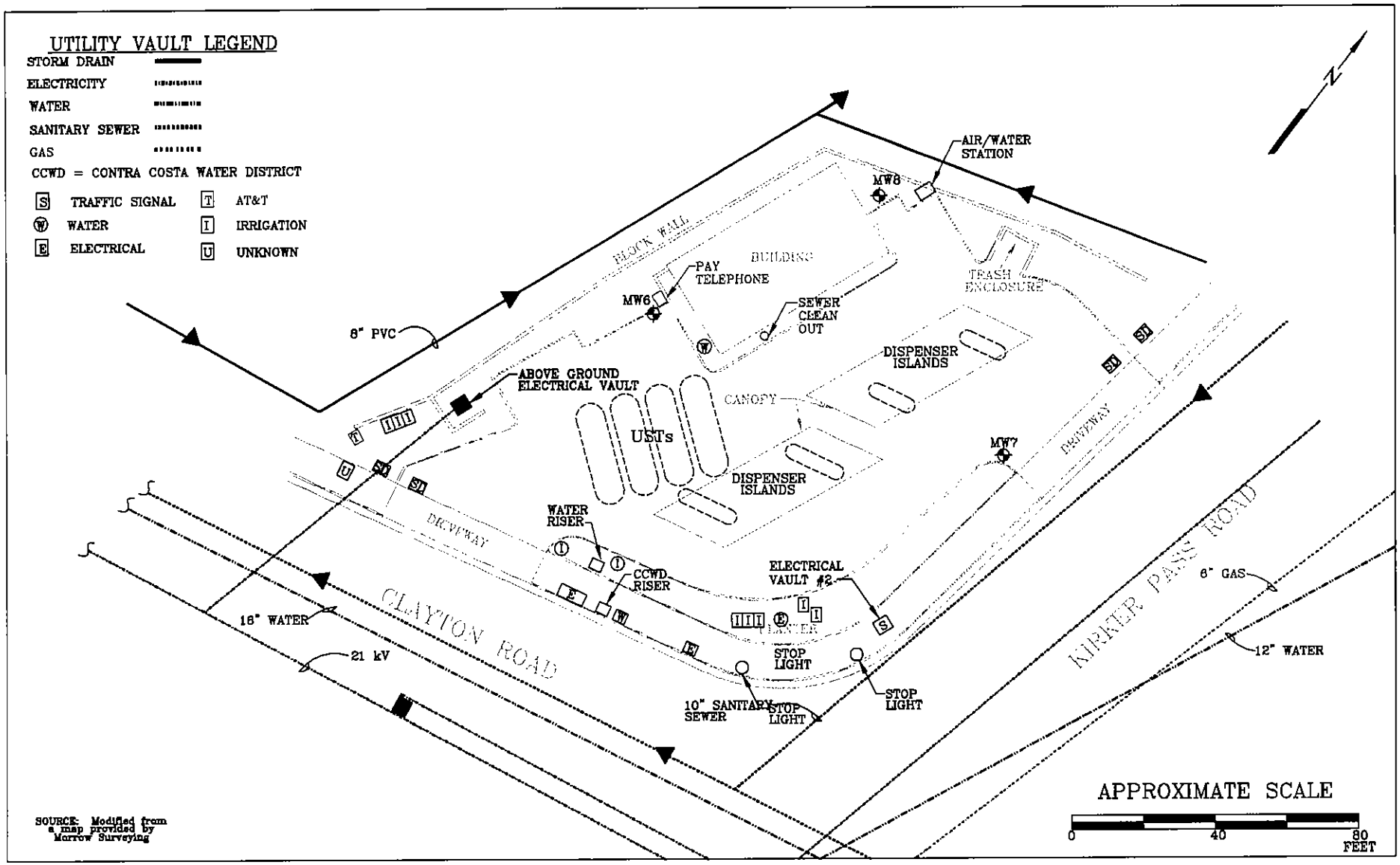
BENZENE ISOCONCENTRATION MAP
February 23, 2005
FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

MW8 Groundwater Monitoring Wells
<0.50 Benzene concentration (ug/L)
MW6 Destroyed Groundwater Monitoring Well
B3 Soil Boring

PROJECT NO.
2170

PLATE
7



FN 21700003_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

UNDERGROUND UTILITY AND VAULT LOCATIONS

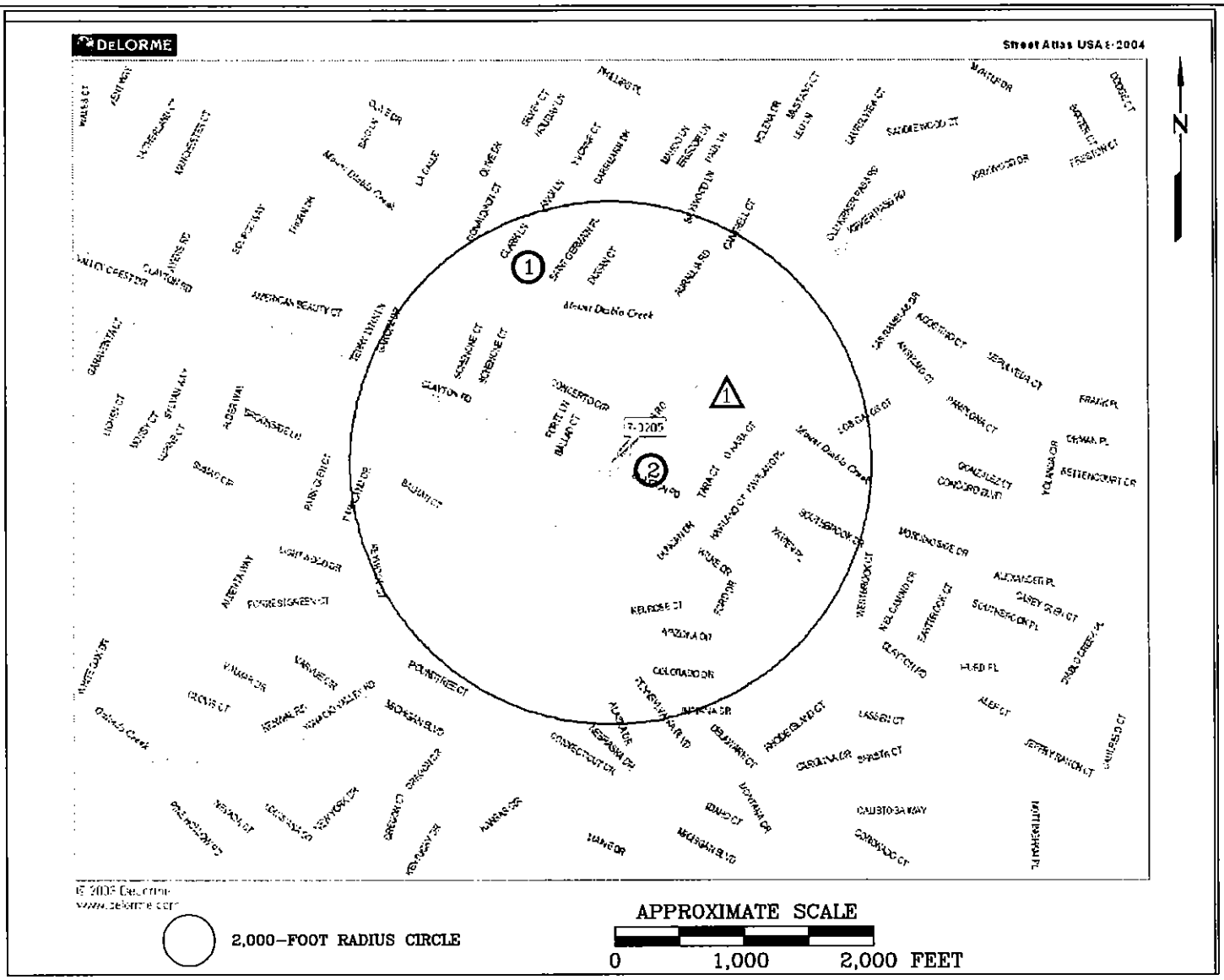
FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

MW6 Groundwater Monitoring Wells

PROJECT NO. 2170

PLATE 8



FN TOPO SRS 2005

EXPLANATION

SENSITIVE RECEPTORS

SURFACE WATER

1 Mt. Diablo Creek (~800 feet)

WATER WELLS

1 Irrigation Well (~1,700 feet)

2 4 Monitoring Wells (~100 feet)

SCHOOLS

1 None

NEAREST BASEMENT

None

HOSPITALS

1 None

ERI ENVIRONMENTAL RESOLUTIONS, INC

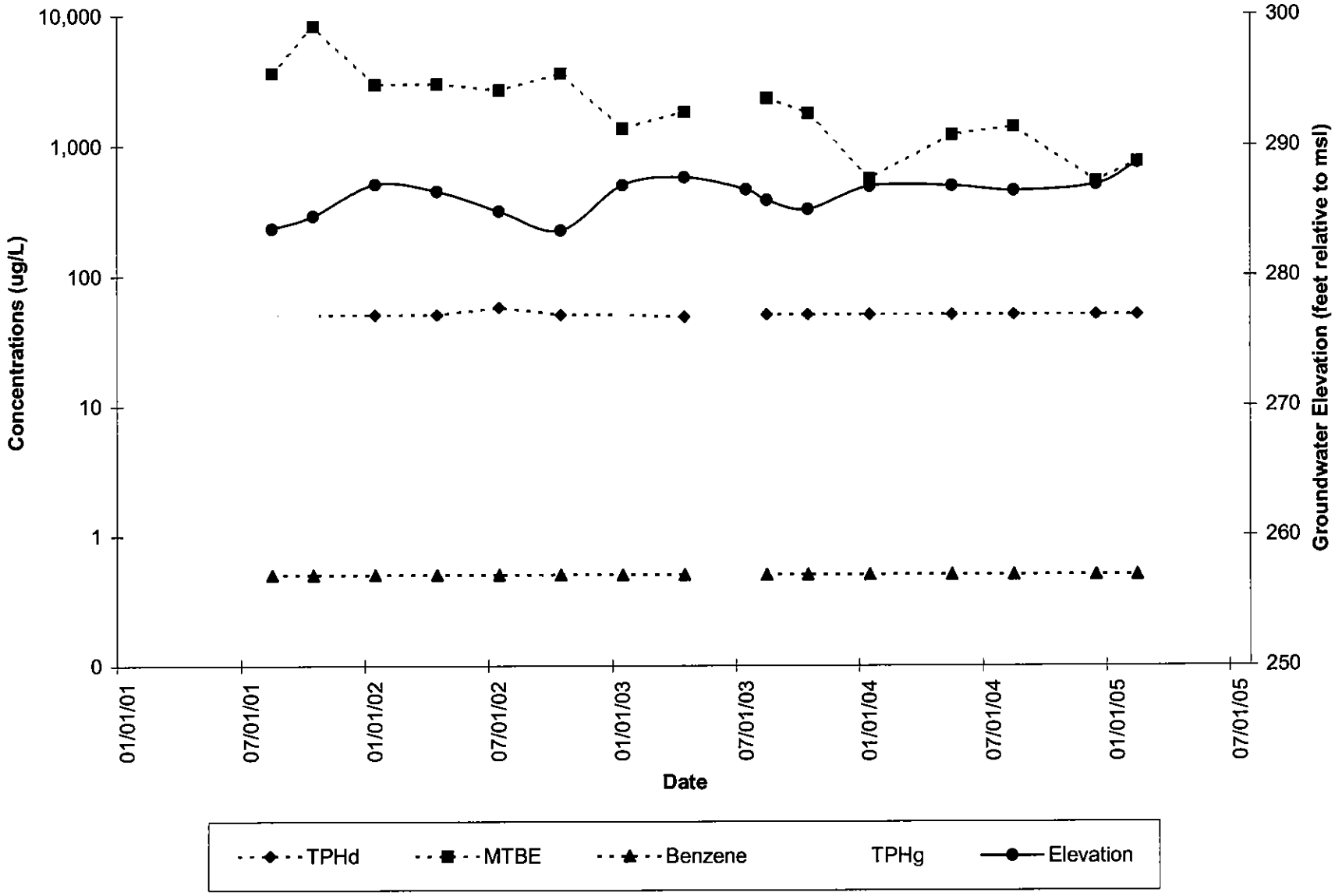
SENSITIVE RECEPTOR MAP

FORMER EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

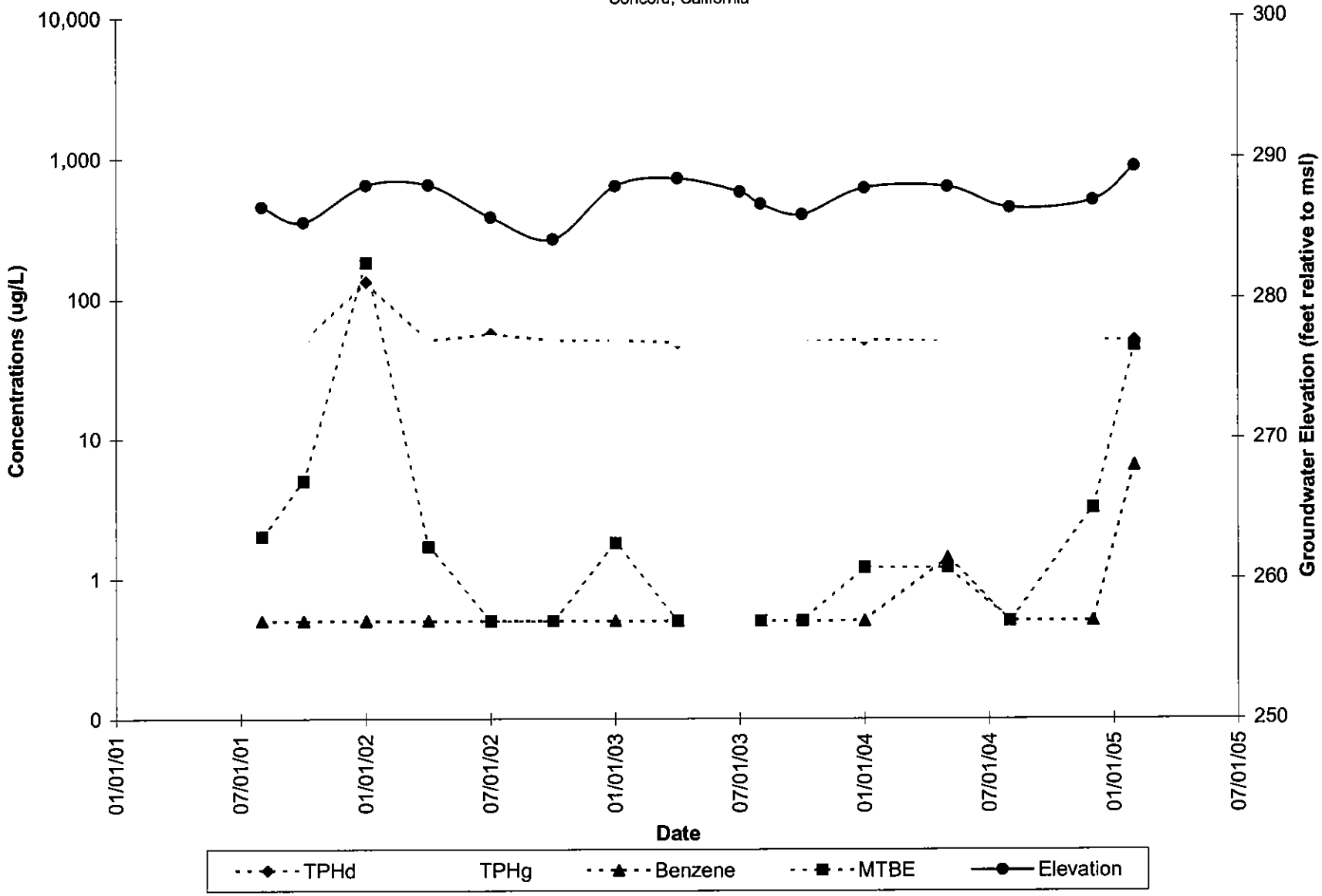
PROJECT NO. 2170

PLATE 9

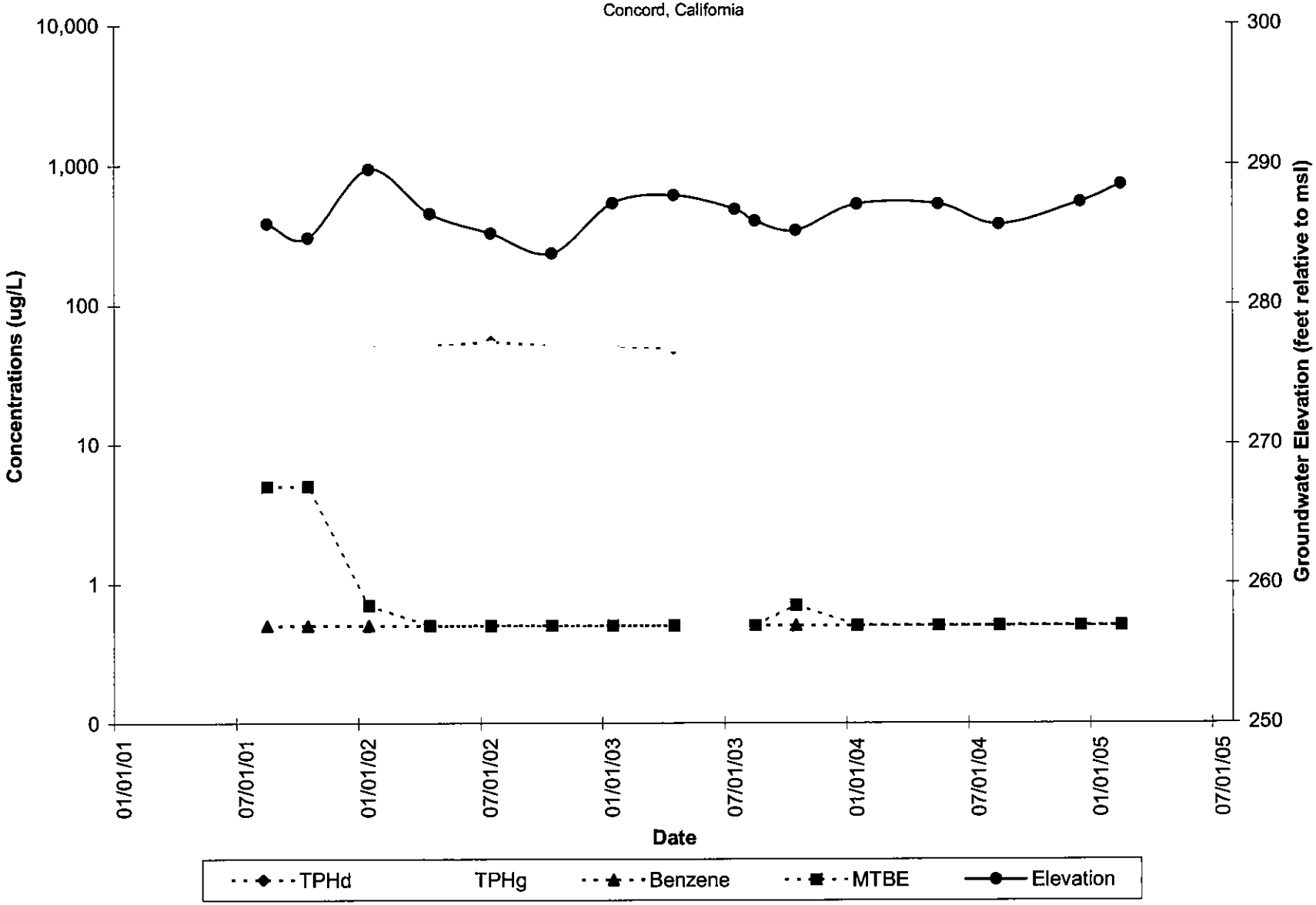
GRAPH 1
MW6
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California



GRAPH 2
MW7
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California



GRAPH 3
MW8
Former Exxon Service Station 7-0205
5399 Clayton Road
Concord, California



ATTACHMENT A

SITE CLOSURE SUMMARY

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: May 12, 2005

Agency Name: San Francisco Bay Regional Water Quality Control Board	Address: 1515 Clay Street, Suite 1400
City/State/Zip: Oakland, CA 94612	Phone: 510-622-2379
Responsible Staff Person: George Leyva	Title: Eng. Geologist

II. SITE INFORMATION

Site Facility Name: Former Exxon Service Station 7-0205		
Site Facility Address: 5399 Clayton Road, Concord, CA		
RB Case Nos.: 07-0811 (GVL)	Local or LOP Case No.:	Priority: Low
URF Filing Date: September 2000	SWEEPS No.:	
Responsible Parties (include addresses and phone numbers):		
Jennifer C. Sedlachek, Exxon Mobil Oil Corporation		
4096 Piedmont Avenue, #194		
Oakland, California 94611		
Phone (510) 547-8196 Fax (510) 547-8706		

Tank No.	Size in Gallons	Contents	Closed In—Place/Removed?	Date
1	10,000	Diesel		March 1987
1	10,000	Premium		March 1987
1	10,000	Plus		March 1987
1	10,000	Regular		March 1987

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Available records reference the discharge from the USTs piping - from the tanks to the pump islands.		
Site characterization complete? Yes	Date Approved by Oversight Agency:	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 22.31 ft	Lowest Depth: 28.94 ft	Flow Direction: Northwest
Most Sensitive Current Use: None		
Most Sensitive Potential Use and Probability of Use:	Drinking water potential	
Are drinking water wells affected? No	Aquifer Name: NA	
Is surface water affected? No	Nearest surface water name: Mt. Diablo Creek ~1,000 ft NE; Galindo Creek ~ 4,250 ft SW	

Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Report(s) on file? NA	Where is report(s) filed? NA

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank			
Piping			
Free Product			
Soil	(8) 55-gallon drums	Disposed of at Republic Landfill, Livermore, CA	October 2001
Groundwater	(3) 55-gallon drums	Disposed of at Crosby & Overton, Inc. Long Beach, CA	October 2001
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
TPHg	<1	NA	<50	513					
TPHd	2.2	NA	85	<50					
Benzene	<0.001	NA	<0.5	<0.50					
MTBE	<5	NA	5,900	750					

Comments (Depth of Remediation, etc.):
Dissolved-phase hydrocarbon concentrations in groundwater have decreased by natural attenuation processes.

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: Provide environmental documents to new owners limiting excavation and using groundwater until fully remediated.		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

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

Title: Baseline Environmental Assessment, Former Exxon Service Station 7-0205	Date: January 1999
Title: Subsurface Investigation at Exxon Service Station 7-0205	Date: May 31, 2000
Title: Work Plan for Evaluation of Soil and Groundwater, Former Exxon Service Station 7-0205	Date: May 2, 2001
Title: Well Installation Report for Former Exxon Service Station 7-0205	Date: September 17, 2001

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.

2) SITE COMMENTS WORTHY OF NOTICE (E.G., AREA OF RESIDUAL POLLUTION LEFT IN PLACE, DEED NOTICES ETC.

3) DESCRIBE WHY THE SITE DOES NOT POSE A RISK TO HUMAN HEALTH OR THE ENVIRONMENT.

1) See Attached Generalized Site Plan

2) Residual-phase hydrocarbons in soil are confined to a few isolated areas at near nondetectable levels and are adequately delineated. Dissolved-phase hydrocarbon concentrations in groundwater have shown decreasing trends since groundwater monitoring and sampling began in 2001 and 2005.

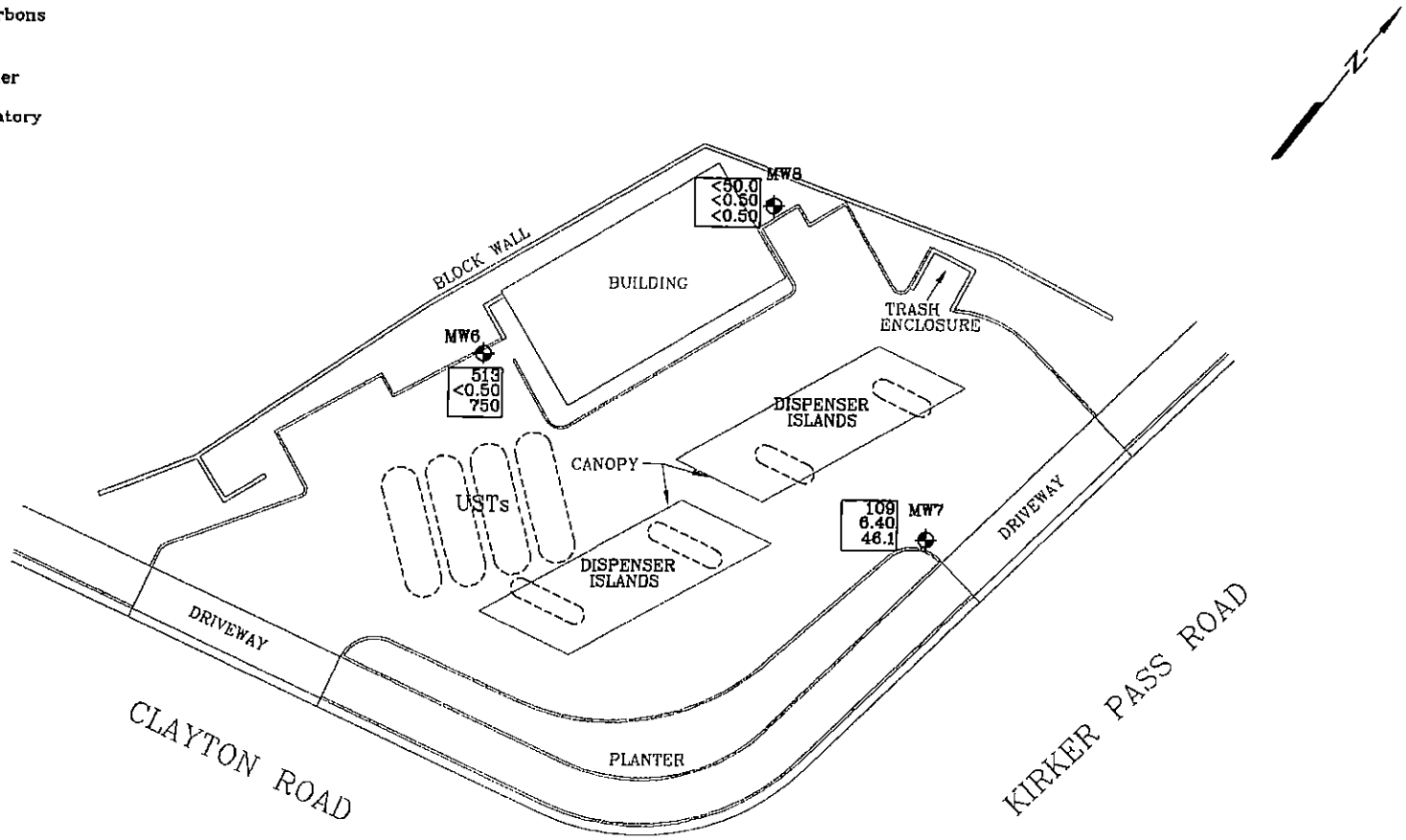
3) Residual-phase hydrocarbon concentrations in soil do not exceed the Environmental screening level (ESL) limits for potential vapor intrusion to residential or commercial buildings. Dissolved-phase petroleum hydrocarbon concentrations in groundwater do not exceed ESLs for residential and commercial land use, where groundwater is not a current source of drinking water.

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

Analyte Concentrations in ug/L
Sampled February 23, 2005

513	Total Petroleum Hydrocarbons as gasoline
<0.50	Benzene (EPA Method 8260B)
750	Methyl Tertiary Butyl Ether (EPA Method 8260B)

< Less Than the Stated Laboratory Reporting Limit
ug/L Micrograms per Liter



APPROXIMATE SCALE
0 40 80 FEET

SOURCE: Modified from a map provided by Morrow Surveying

FN 21700003_QM

ERI ENVIRONMENTAL RESOLUTIONS, INC.

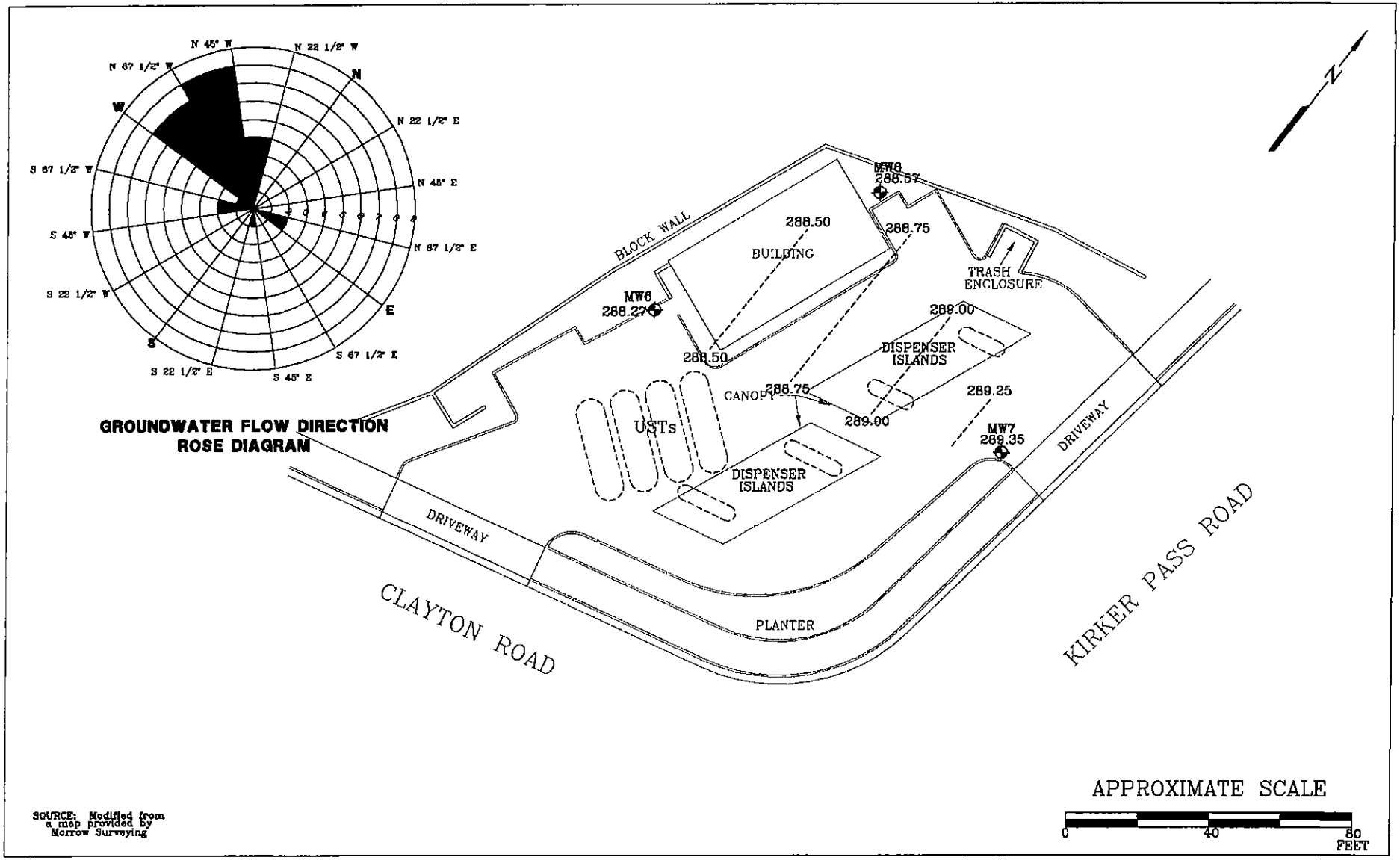
GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION
MW8 Groundwater Monitoring Wells

PROJECT NO. 2170

ATTACHMENT A-1



SOURCE: Modified from a map provided by Morrow Surveying

FN 21700003_QM

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GROUNDWATER ELEVATION MAP
February 23, 2005

FORMER
EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

EXPLANATION

MW8 ◆ Groundwater Monitoring Wells

288.57 Groundwater elevation in feet; datum is mean sea level

289.25 ---- Line of Equal Groundwater Elevation; datum is mean sea level

PROJECT NO.
2170

ATTACHMENT
A-2

ATTACHMENT B

REGULATORY CORRESPONDENCE

Cal/EPA

San Francisco Bay Regional Water Quality Control Board

1515 Clay Street
Suite 1400
Oakland, CA 94612
(510) 622-2300
FAX (510) 622-2460

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LAFAYETTE, CA

Gray Davis
Governor

January 20, 1999
File No. 07-0318 (JGU)
2118 .11

Darin Rouse
Exxon Company, U.S.A.
2300 Clayton Rd., Suite 490
Concord, CA 94524-4032

Subject: Transmittal of the Closure Letter and Site Closure Summary
5399 Clayton Road, Concord, Contra Costa

Dear Mr. Rouse:

Attached please find the uniform storage tank closure letter and the site closure summary form for the subject site.

If you have any questions regarding this matter, please contact Jolanta Uchman of my staff at (510) 622-2432.

Sincerely,

Loretta K. Barsamian
Executive Officer

Stephen I. Morse
Chief, Toxics Cleanup Division

Enclosure: Closure Letter
Site Closure Summary
Site Plan

cc (with enclosure):
Ms. Sue Loyd
CCCHSD
4333 Pacheco Blvd.
Martinez, CA 94553

Mr. Brad Anderson
EA Engineering
3468 Mt. Diablo Blvd., Suite B-10
Lafayette, CA 94549

Mr. Steve Mizera, SWRCB

Recycled Paper

Cal/EPA

San Francisco Bay
Regional Water
Quality Control
Board

1515 Clay Street
Suite 1400
Oakland, CA 94612
(510) 622-2300
FAX (510) 622-2460

Gray Davis
Governor

January 20, 1999
File No. 07-0318 (JGU)
2118.11

Darin Rouse
Exxon Company
P.O. Box 4032
2300 Clayton Road, Suite 490
Concord, CA 94524-4032

Subject: **Case Closure - Underground Storage Tank**
5399 Clayton Road, Concord, Contra Costa County

Dear Rouse :

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based upon the available information, including the land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Water Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please contact our office, if you have any questions regarding this matter.

Sincerely,

for Stephen Morse

Loretta K. Barsamian
Executive Officer

Site Summary Form

20-Jan-99

Site: EXXON **RB File No.:** 07-0318 JGU Yes **County:** 07

5399 CLAYTON RD, CONCORD, CA

Nearest Surface Water: Mt. Diablo Creek >1000' N **Pit Samples Submitted?:** No **Highest GW Depth:** 21

Potential Ecological Risk: unknown **No. Borings:** 5 **Lowest GW Depth:** 31

Distance to Wells: >1/4 mil **Affected?:** No **No. Wells:** 5 **Direction of GW Flow:** NW

Human Health Risk: unknown **Ground Elev:** 310'

Staff Notes: No Further Action Letter 1-20-99

Geology: Alluvial fan deposits: silt, clay, sand, gravel; GW bearing strata in the Clayton-Ygnacio Valley basin, GW @ 17' bgs.

Comments: 550-gal waste oil tank removed 6/86 replaced with with a new double-walled fiberglass UST. Pollution found in soil sample @ 2' below the base of the pit up to 920ppm of TPH-O&G. 5 MWs installed @ the site (1987-1988). Currently an active service station. Analysis of MTBE was run 4-98 from the samples collected 4-95. The report describing the first UST removal is not available. Soil samples collected from MW-4, located in the immediate vicinity of the former USTs indicate that pollution was not present in the former UST pit. Monitoring wells were destroyed in 1995. A chromatogram review of the 4-95 sampling event indicated that MTBE results are 5-10 ppb in MW-1 and MW-3, all other monitoring wells are less than 5 ppb.

Management Rqmts:

Reports: Proposal for Site Contamination Investigation (Groundwater Technology) 11-86; Contamination Assessment Report (Groundwater Technology) 4-87; Quarterly Monitoring Reports (Groundwater Technology) 2/89-4/95; Site Information Summary Form (EA) 10-98.

Remedial Activity

	Action Taken	Amount
Free Product:		
Soil:	Removed and disposed at BFI from 1991-1997	200 cy (total)
Ground Water:		0
Vapor:		0

Groundwater Results, ppb

DATE	LOCATION	TPH-G	TPH-D	BENZENE	TOLUENE	XYLENE	ETHYLBENZE	MTBE	HVOC	OTHERS
9/10/87	MW-1									39000 ppb TO
1/13/87	MW-1									1600 ppb WO
4/4/95	MW-1	<50		<0.5	<0.5	<0.5	<0.5	<5		
6/21/89	MW-1	18		ND	ND	ND	ND			
10/29/87	MW-1	2300								BTEX 155
6/16/92	MW-1	290		0.6	10	<0.5	<0.5			
12/16/88	MW-1	310		1						
3/23/90	MW-1	86		ND	ND	ND	ND			

Soil Results, ppm

	TPH-gas		TPH-diesel		Benzene		Toluene		Xylene		Ethyl-benzene	
LOCATION	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
PL-3 (11-91)	320											
SB 3/6/87 @14'	1.1				ND							

Tank Information

TANKNO	SIZE	CONTENTS	REMOVED	ACTION	DATE
1	550	Used Oil	Yes	removed and disposed	6/16/86
2	4,000	Gasoline	Yes	removed and disposed	8/1/86
3	4,000	Gasoline	Yes	removed and disposed	8/1/86
4	4,000	Gasoline	Yes	removed and disposed	8/1/86
5	4,000	Gasoline	Yes	removed and disposed	8/1/86
6	6,000	Diesel	Yes	removed and disposed	8/1/86
7	500	Used Oil	Yes	removed and disposed	8/1/86

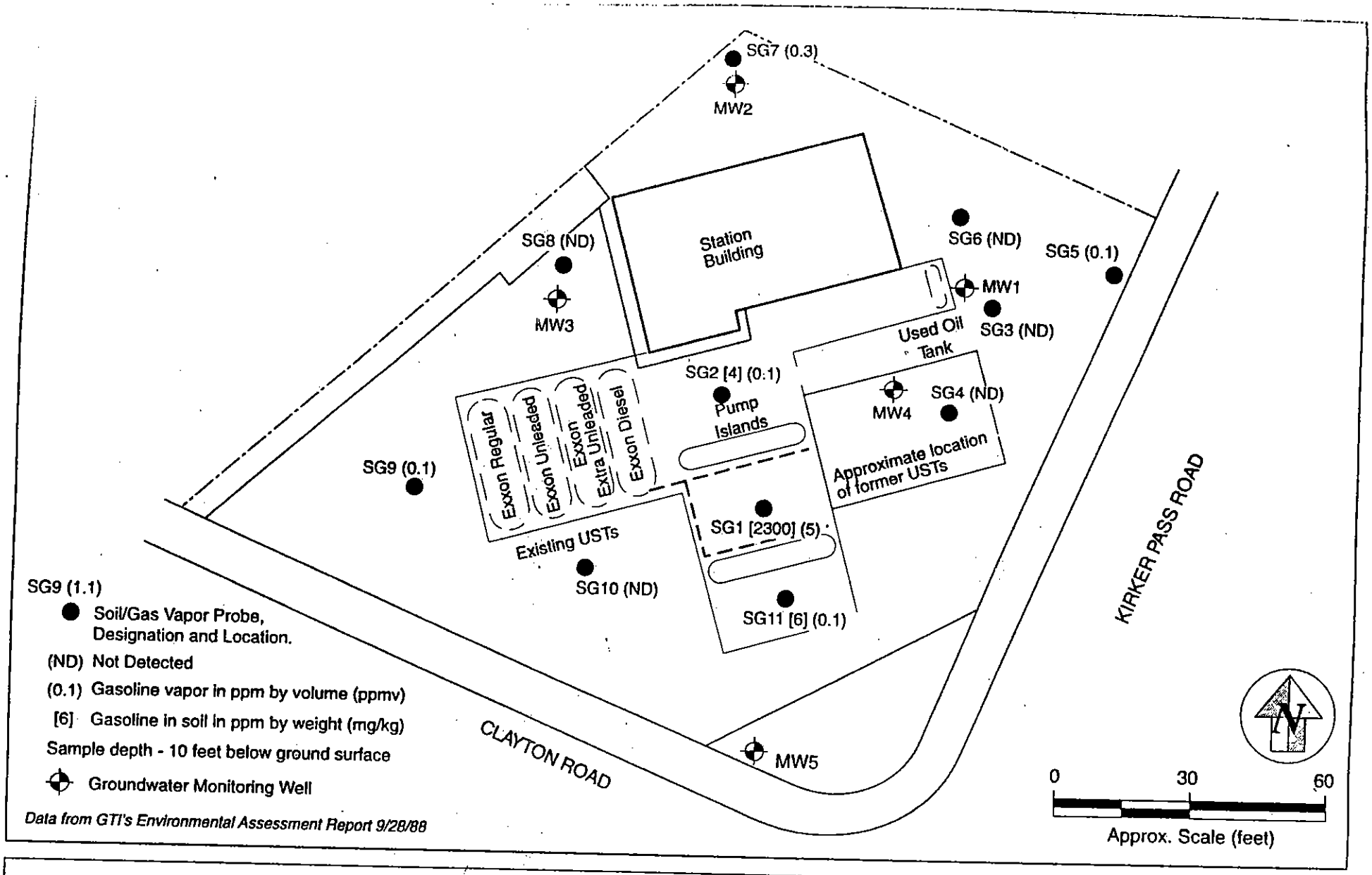

Figure 4. Soil gas survey locations, Exxon RS 7-0205, 5399 Clayton Road, Concord, California.

Drawn	ELA	Date	8/8/95
Reviewed		Date	
Rev		Date	
Final	UM	Date	8/28/95

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07-0318

ATTACHMENT C

UNITED SOIL CLASSIFICATION SYSTEM, SYMBOL KEY, AND BORING LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel sand mixture, little or no fines
		GM	Silty gravels, gravel-sand-clay mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures

MAJOR DIVISIONS		LTR	DESCRIPTION
FINE GRAINED SOILS	SILTS AND CLAYS LL<50	ML	Inorganic silts and very fine-grained sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	SILTS AND CLAYS LL>50	MH	Inorganic silts, micaceous or diatomaceous fine-grained sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity
HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils

SAMPLE CONDITION

- NO RECOVERY
- SAMPLED INTERVAL
- DESCRIBED SAMPLE
- PRESERVED SAMPLE
- GROUNDWATER LEVEL OBSERVED FROM FIRST WET SOIL SAMPLE IN BORING
- STATIC GROUNDWATER LEVEL
- OVM — ORGANIC VAPOR METER READING IN PARTS PER MILLION BY VOLUME
- PID — PHOTO-IONIZATION DETECTOR READING IN PARTS PER MILLION BY VOLUME

WELL DESIGN

- SAND PACK
- BENTONITE ANNULAR SEAL
- NEAT CEMENT ANNULAR SEAL
- BLANK CASING
- SLOTTED CASING
- NR — NOT RECORDED
- NA — NOT ANALYZED

BLOW/FT. REPRESENTS THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH THE LAST 12 INCHES OF AN 18-INCH OR 24-INCH PENETRATION.

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.

ERI ENVIRONMENTAL RESOLUTIONS, INC.

PROJECT 2170

UNIFIED SOIL CLASSIFICATION SYSTEM AND LOG OF BORINGS SYMBOL KEY

FORMER EXXON SERVICE STATION 7-0205
5399 Clayton Road
Concord, California

ATTACHMENT C

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 217003X Boring: MW6 Plate: 1 OF 1
Site: Former Exxon Service Station Date: 7/13/2001
Drill Contractor: Woodward
Sample Method: Split-spoon Geologist: John B. Bobbitt
Drill Rig: B-57 Bore Hole Diameter: 8" Signature:
Location: 3 feet south of pay telephone west side of station Registration: R.G. 4313
Logged by: Scott Graham

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION
						6 inches of concrete
						Cleared to 4 feet
5	25	7.2			CL	Silty clay with trace sand: dark brown; moist; trace of fine-grained sand
10	36	9.4				Less silt, stiff clay
15	52	12.0				
					SC	Clayey sand with some silt: brown, moist, very fine-grained
20	11	14.8				
25	15	133.8 ▼ ▽			SM	Silty sand with some clay: grayish green, wet, very fine-grained
30	15	22.3			SM	Silty sand with some clay: brown, wet, coarse-grained
					SM	Very fine-grained
					ML	Clayey silt: brown, wet
35	32	16.7				Boring terminated at 35 feet Groundwater encountered at 25 feet
40						

WELL DESIGN

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Neat Cement

FN: 217003W7

ERI ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 217003X Boring: MW7 Plate: 1 OF 1
Site: Former Exxon Service Station Date: 7/13/2001
Drill Contractor: Woodward
Sample Method: Split-spoon Geologist: John B. Bobbitt
Drill Rig: B-57 Bore Hole Diameter: 8" Signature:
Location: North of planter near east entrance Registration: R.G. 4313
Logged by: Scott Graham

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION
						6 inches of concrete
						Cleared to 4 feet
5					CL	Silty clay: brown, moist
10						
15	17	0				Stiff clay
20					ML	Clayey silt with some sand: brown, moist, very fine-grained sand
25	19	▼12.0 ▽			CL	Silty clay: brown, moist, stiff
30						Sandy clay: brown, wet, fine-grained
35	42	7.2			CL	Silty clay: brown, wet
40						Boring terminated at 35 feet Water encountered at 25.5 feet

WELL DESIGN

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Neat Cement

FN: 217Omw7

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 217003X Boring: MW8 Plate: 1 OF 1

Site: Former Exxon Service Station Date: 7/13/2001

Drill Contractor: Woodward

Sample Method: Split-spoon Geologist: John B. Bobbitt

Drill Rig: B-57 Bore Hole Diameter: 8" Signature:

Location: 4 feet northwest of air/water dispenser in planter Registration: R.G. 4313

Logged by: Scott Graham

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION
						Cleared to 4 feet Clayey sandy gravel, moist, brown, sand coarse-grained, gravel up to 1 inch diameter
5	36	18.5			CL	Silty-clay with some gravel: brown, moist, pebbles up to 1/4 inch, clay very stiff
10	32	29.8				Decreasing silt
15	42	31.7				Decreasing gravel
					SW	Sand: light brown, dry, fine-grained
20	39	20.4			GM	Silty clayey gravel: brown, damp, gravels up to 1 inch
25	32	204.9				Silty-clay: brown, moist, wet
					ML	
30						Clayey-silt: brown, moist
35	38	56.4				Boring terminated at 35 feet Groundwater encountered at 25.5 feet
40						

WELL DESIGN

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Neat Cement

FN: 217mw7