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Jennifer C. Sedlachek
Project Manager

ExxonMobil
Refining & Supply

January 18, 2005

Mr. Dale Radford
Sonoma County Department of Health Services
Environmental Health Division
3273 Airway Drive, Suite D
Santa Rosa, California 95403-2097

RE: Former Exxon RAS #7-0249/6301 Commerce Boulevard, Rohnert Park, California.

Dear Mr. Radford:

Attached for your review and comment is a copy of the letter report entitled ***Addendum to Corrective Action Plan,*** dated January 18, 2005, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California, and details proposed activities for 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 Addendum to Corrective Action Plan, dated January 18, 2005.

cc: w/ attachment
Mr. Tom Dunbar, California Regional Water Quality Control Board, North Coast Region
Mr. Joseph A. Aldridge, Valero Energy Corporation

w/o attachment
Mr. Robert A. Saur, Environmental Resolutions, Inc

ERI

ENVIRONMENTAL RESOLUTIONS, INC.

January 18, 2005
ERI 200214.R24

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

Subject: Addendum to Corrective Action Plan, Former Exxon Service Station 7-0249, 6301 Commerce Boulevard, Rohnert Park, California.

Ms. Sedlachek:

At the request of ExxonMobil Oil Corporation (ExxonMobil), Environmental Resolutions, Inc. (ERI) has prepared this Revision to *Corrective Action Plan* (CAP), dated September 17, 2004, in response to a letter from the County of Sonoma, Department of Health Services (the County) dated October 20, 2004 (Attachment A). Confirmation of ERI's request of an extension to this report is provided in Attachment A.

BACKGROUND

The site is located on the southwestern corner of Commerce Boulevard and Rohnert Park Expressway, in Rohnert Park, California, as shown on the Site Vicinity Map (Plate 1). The locations of former and existing underground storage tanks (USTs), dispenser islands, and other select site features are shown on the Generalized Site Plan (Plate 2). The area surrounding the site is generally used for commercial businesses. ExxonMobil has not owned or operated USTs at the site since June 2000. The site currently operates as a Valero-branded service station.

On behalf of ExxonMobil, ERI prepared and submitted a CAP (ERI, September 17, 2004), to the Sonoma County Public Health Department (the County). The CAP evaluated monitored natural attenuation (MNA), soil vapor extraction (SVE), and groundwater extraction and treatment (GET) as remedial alternatives. ERI concluded that MNA is a viable remedial alternative and is the most cost-effective option. The County issued a response, dated October 20, 2004, which requested additional information, and concluded that MNA is not a viable remedial alternative based on the time required to meet cleanup objectives.

In response to the County's directive, ERI has updated the groundwater monitoring data, including hydrographs and isoconcentration maps; compiled additional information regarding the chemicals of concern (COCs), including physical, chemical, toxicological, and fate and transport characteristics; and calculated the dissolved-phase and residual mass of the respective COCs in groundwater and vadose soil. Based on the results of the additional work, ERI has reevaluated potential secondary sources of dissolved-phase constituents in groundwater and viable remedial alternatives.

CHEMICALS OF CONCERN

Cumulative results of laboratory analyses of groundwater samples (Tables 1A and 1B) and soil (Table 2) indicate that gasoline-range and diesel-range fuel hydrocarbons and related constituents are present in soil and groundwater underlying the site. ERI has identified the following constituents as COCs: diesel hydrocarbons (quantitated as total petroleum hydrocarbons as diesel [TPHd]); gasoline hydrocarbons (quantitated as total petroleum hydrocarbons as gasoline [TPHg]); benzene, toluene, ethylbenzene, and

xylenes (BTEX); and methyl-tertiary butyl ether (MTBE). Select physical, chemical, and toxicological properties of these COCs are summarized in Attachment B. The aerobic decay rates for the COCs in saturated soil and unsaturated soil are also provided in Attachment B.

SITE CONDITIONS

Geology and Hydrogeology

Sediment underlying the site consists predominantly of clay and silty clay interspersed with small isolated lenses of sand. There are two continuous and discrete water-bearing sand layers ranging in thickness of one to ten feet. The upper water-bearing sand is at a depth of approximately 5 to 15 feet below ground surface (bgs). The lower water-bearing sand is at a depth of approximately 20 to 27 feet bgs. A layer of clayey sediment separates the upper and lower water-bearing sand layers. Cross sections and boring logs for the site are provided in Appendices B and C of the CAP (ERI, September 17, 2004).

The depth to static groundwater in wells screened in the upper-water bearing zone has historically ranged between approximately 5 to 14 feet bgs, with an average hydraulic gradient of 0.007 and a predominant groundwater flow direction to the southwest. The depth to static groundwater in wells screened in the lower-water bearing zone has historically ranged between approximately 5 to 14 feet bgs with an average hydraulic gradient of 0.005 and a predominant groundwater flow direction to the southwest. Groundwater flow within the upper water-bearing sand is primarily to the southwest and south-southeast, with occasional flow direction to the northeast. Groundwater flow within the lower water-bearing zone is also predominantly to the southwest and south-southeast. The similarity of groundwater elevations and flow directions within the upper and lower zones indicates some hydraulic connection between the two zones.

Cumulative groundwater elevation data are summarized in Table 1A; the groundwater elevations and COC concentrations are graphically summarized on the individual well hydrographs (Attachment C). These data indicate the depths to static groundwater and corresponding groundwater elevations vary seasonally. The average depth to static groundwater in individual wells has ranged from 7.16 to 9.52 feet bgs. The maximum measured depth to static groundwater in individual wells has ranged from 9.41 to 13.46 feet bgs. For the purposes of this document, ERI identifies the vadose zone as extending from ground surface to approximately 12 feet bgs.

The calculated seepage velocity of the upper and lower water bearing zones is 4.23×10^{-5} and 3.13×10^{-5} centimeters per second (cm/sec).

Distribution, Mass, and Migration Potential of Residual Hydrocarbons, and Potential Source Areas

Cumulative results of laboratory analyses of soil samples collected during UST removal and subsequent soil assessment are summarized in Table 2; the locations of the soil samples are shown in Attachment D. Based on these data, ERI identified five areas at the site which represent potential secondary source areas (Areas I through V) for dissolved-phase COCs in groundwater. The locations of the potential secondary source areas are depicted on Plate D1 (Attachment D).

ERI compiled residual COC concentrations in vadose and saturated zone sediments within each potential source area (Attachment D, Tables D1 and D2), and calculated the residual mass for each COC remaining in place in vadose and saturated sediment (Attachment D Tables D3 and D4) within each area based on the mean COC concentration within each potential source area (Plate D1). ERI also calculated the residual COC mass in place for the area of the site outside the potential source areas (Area VI). ERI did not calculate the mass of residual MTBE remaining in place due to insufficient data. The results are

summarized in Table 3. The estimates of COC mass remaining in place are highly conservative (i.e., are higher than actual values) because:

- A value of half the nominal detection limit was used for concentrations reported as below detection limits to calculate mean concentrations;
- The calculations did not take into account natural degradation,
- Most soil samples were collected 10 to 19 years ago;
- The limits of the potential source areas are conservatively large.

In vadose sediment, the maximum reported residual TPHg (up to 600 milligrams per kilogram [mg/Kg]) and benzene (13 mg/Kg) concentrations were reported in samples collected from sediment underlying the former gasoline USTs, which were removed in 1986. However, during subsequent soil and groundwater assessment in 1995, soil samples with TPHg concentrations up to 21,000 mg/Kg and benzene concentration up to 150 mg/kg were collected from boring B8, located north of the existing gasoline USTs. Residual saturation concentrations of gasoline range from approximately 950 to 7,500 mg/Kg (API, 1898). Therefore, the reported TPHg concentration of 21,000 mg/Kg may indicate the presence of separate-phase gasoline in that location in 1995, at the time these samples were collected. The depth of the sample (14 to 15 feet bgs) and the historical range of depths to groundwater indicate that the depth interval of the sample is most often submerged. Therefore, if separate-phase gasoline is present in this area and depth interval it is most likely trapped and immobile. Borings B6 and B10, drilled as part of the same 1995 investigation, provide lateral delineation of the elevated TPHg concentrations (possibly submerged separate phase) found in boring B8; the vertical extent is also adequately delineated by the deeper soil samples collected in boring B8. Also, hydrocarbon sheen was reportedly present in well MW10 during June 1993, and historical dissolved-phase TPHg and BTEX concentrations (Table 1A) may indicate proximity to a primary source. However, dissolved-phase COC concentrations in nearby existing wells MW18A, MW18B, MW20A, and MW20B are not indicative of proximity to a primary source, concentrations in well MW10 showed declining trends prior to destruction in 2001, and concentrations in well MW8 were generally not indicative of proximity to a primary source. These observations suggest the extent and mass of separate-phase gasoline was limited, and natural degradation has occurred. If present, immobile gasoline hydrocarbons represent a potential secondary source of dissolved-phase hydrocarbons to groundwater downgradient of this location.

The amount of residual COC mass, and the lateral and vertical distribution of COC mass, indicated the following:

- Residual diesel-range hydrocarbons (TPHd) are present predominantly in vadose soil (0 to 12 feet bgs) underlying the former fuel-oil UST; between approximately 10 to 12 feet bgs. A lesser amount is present in vadose soil underlying the former used-oil UST.
- Residual gasoline-range hydrocarbons (TPHg) are present predominantly in vadose soil underlying the former gasoline USTs and the former used-oil and fuel oil USTs, and the area north of the existing gasoline UST pit.
- Residual benzene is present predominantly in vadose soil underlying the former gasoline UST pit.
- In saturated sediment (below 12 feet bgs), residual diesel-range hydrocarbons are present only in sediment underlying the former used-oil UST.
- Residual gasoline-range hydrocarbons are present in saturated sediment underlying the former gasoline UST pit, the former fuel-oil UST pit, and the area north of the existing gasoline USTs. Approximately 85% of the residual gasoline-range hydrocarbon mass is present in saturated sediment north of the existing gasoline USTs, based on the distribution and estimated mass calculations (Attachment D).
- Residual benzene is present in saturated sediment underlying the former gasoline UST pit; trace amounts are present in saturated sediment underlying the former used-oil UST. Approximately 83% of the residual benzene mass, based on the distribution and estimated mass calculations (Attachment D), is present in saturated soil north of the existing gasoline USTs.

ERI evaluated the potential migration of residual benzene in vadose sediment (0 to 12 feet bgs) to underlying groundwater using the VLEACH computer program (Ravi and Johnson, 1997), distributed by the United States Environmental Protection Agency. A summary of the input data, input files, and results are included in Attachment E. ERI calculated the mean benzene concentration in samples of vadose soil in each of the potential source areas (Attachment D, Plate D-1), and used the mean concentration as the input value. The VLEACH model results are highly conservative (i.e. the mass flux predicted is higher than actual values) because:

- a value of half the nominal detection limit was used for concentrations reported as below detection limits to calculate mean concentrations;
- the calculations did not take into account natural degradation;
- most soil samples were collected 10 to 19 years ago; and
- the limits of the potential source areas are conservatively large.

The VLEACH model predicts the following:

- The total initial mass flux of benzene from vadose soil underlying the site to groundwater is approximately 10.3 grams per year (g/yr).
- Impacted soil underlying the former gasoline USTs (Area III, Plate D-1) contributes the most benzene mass flux (initially approximately 6.0 g/yr).
- Benzene mass flux diminishes quickly with time (Graph E-1).

Distribution, Mass, and Migration Potential of Dissolved-Phase Hydrocarbons in Groundwater

Cumulative results of groundwater monitoring and sampling are summarized in Tables 1A and 1B and are graphically summarized on the individual well hydrographs (Attachment C). Isoconcentration maps for select COCs within the upper and lower water-bearing zones compiled using the most-recent monitoring and sampling data (November 2004) are presented as Plates 3 through 9.

ERI calculated the mass of dissolved-phase COCs in groundwater for the upper and lower water-bearing zones (Attachment F). The results of the calculations are summarized in Table 4, and indicate:

- Approximately 0.765 lb of dissolved-phase gasoline-range hydrocarbons (TPHg) is present in the upper water bearing zone; approximately 0.075 lb of gasoline-range hydrocarbons (TPHg) is present in the lower water-bearing zone.
- Approximately 0.027 lb of dissolved-phase benzene is present in the upper water-bearing zone; benzene is generally not present in reportable concentrations in the lower water-bearing zone.
- Approximately 0.361 lb of dissolved-phase MTBE is present in the upper water-bearing zone; approximately 0.199 lb is present in the lower zone.

ERI calculated the bulk decay rate for dissolved benzene and MTBE for wells in which the benzene concentration exceeds the water quality objective for groundwater used for domestic or municipal supply as listed in Table 3-2 of the Regional Water Quality Control Board Basin Plan, and for select wells in which the MTBE concentration exceeds the primary MCL. Using the hydrographs for wells that benzene and MTBE exceed water quality objectives, ERI evaluated the trends of benzene and MTBE. Using these trends, ERI calculated the bulk decay rates assuming first-order exponential decay. Well MW12 B is the only well in which the dissolved benzene concentration exceeds the water quality objective of 1 microgram per liter (ug/L). The calculated bulk decay rate indicates that benzene will reach the water quality objective in approximately 9.6 years. Wells MW11, MW12B, MW13A, MW14A, MW14B, MW17B, and MW20A are the only wells in which the dissolve MTBE concentration exceeds the primary MCL of 13 ug/L. The calculated bulk decay rate indicates that MTBE will reach the primary MCL in on-site well MW20A in approximately 50 days, and in off-site wells MW17B, MW14A, and MW14B in approximately 1.7 years, 7 years, and 2.2 years, respectively.

Proximity and Quality of Groundwater and Nearby Surface Water

Hinebaugh Creek, located approximately 900 feet north of the site, is the closest surface water to the site. In addition, Copeland Creek is located approximately 1,800 feet south of the site. The Basin Plan indicates that the site is in a hydrologic area designated as a potential source for municipal supply.

Current and Potential Beneficial Uses of Surface and Groundwater

According to the Regional Water Quality Control Board Basin Plan, the subject site is located in the Laguna Hydrologic Subarea of the Middle Russian River Hydrologic Area of the Russian River Hydrologic Unit. The current and potential beneficial uses of surface and groundwater for the Laguna hydrologic subarea are provided in Attachment G. The area has been designated as having potential municipal supply use, and as having existing agricultural, industrial, irrigation, and other uses.

REMEDIAL ALTERNATIVES

ERI previously submitted a CAP (ERI, September 2004) which evaluated MNA, SVE, and GET as remedial alternatives, and recommended MNA as a viable and cost-effective remedial alternative. ERI also evaluated the feasibility of MNA (ERI, May 2004), and concluded that site conditions were supportive of natural attenuation, and that natural attenuation was most likely occurring at the site. In this document, ERI has compiled additional information regarding the characteristics of the respective COCs, the mass of the COCs present in soil and groundwater, and the migration potential of dissolved-phase and residual hydrocarbons. The cumulative results of assessment and feasibility studies indicate the following:

- The dissolved TPHg and BTEX plume within the upper and lower water-bearing zones are adequately delineated laterally and vertically. MTBE is present at concentrations that exceed water quality objectives and cleanup goals in on-site well MW12B, and downgradient wells MW11, MW14A, MW14B, and MW17B. Concentration trends in most monitoring wells show stable or decreasing trends. The estimated mass of respective dissolved-phase COCs in the upper and lower zones range from 0 to 0.765 lb.
- Residual COCs are present in vadose sediment (0 to 12 feet bgs) in former source areas. However, the potential for migration of the residual COCs to groundwater is low.
- Immobile separate-phase gasoline may be present in saturated sediment in the area north of the existing USTs, and may provide a potential secondary source to groundwater.
- Conditions in the vadose and saturated zones are conducive for natural attenuation, and natural attenuation is most likely occurring, as indicated by the results of the *Feasibility Study for Natural Attenuation* (ERI, May 20, 2004).

Groundwater Cleanup Objectives

ERI proposes to apply the water quality objectives for groundwater used for domestic or municipal supply as listed in Table 3-2 of the Regional Water Quality Control Board Basin Plan as clean-up objectives. A copy of Table 3-2 is provided in Attachment G. These objectives are consistent with the existing and potential beneficial uses of groundwater and surface water in the area. Comparison of COC representative concentrations to groundwater cleanup objectives are shown in Table 5.

Remedial System Selection Criteria

ERI has evaluated potential remedial alternatives based on viability, time required to meet cleanup goals, and cost effectiveness.

Estimated Time to Achieve Cleanup Objectives

The CAP evaluated MNA, SVE and GET as remedial alternatives for the subject site. Using the calculated bulk decay rates discussed above, ERI estimates that water quality objectives will be achieved in approximately 10 years with natural attenuation. Because SVE does not directly remediate groundwater, ERI estimates that SVE will achieve water quality objectives in approximately the same time as natural attenuation, approximately 10 years. In addition, due to the low concentrations in vadose soil, remediation by SVE does not appear to be a cost-effective remedial alternative. Based on the results of the November 1991 aquifer test and the distribution of dissolved hydrocarbons beneath the site, ERI estimates GET will achieve water quality objectives in approximately 9 years using 10 groundwater extraction wells.

CONCLUSIONS AND RECOMMENDATIONS

Based on the previous assessment and feasibility testing and the additional information presented in this document, ERI concludes:

- The residual COC mass in vadose sediment does not warrant active remediation.
- If present, the occurrence of submerged, immobile, separate-phase gasoline in saturated sediment north of the existing gasoline USTs may provide a secondary source of gasoline hydrocarbons to groundwater and warrants further evaluation. Existing assessment data indicate the lateral extent of the residual gasoline is partially delineated and vertical delineation is adequate. Degradation has likely occurred since detection in 1995.
- MNA is a viable, cost-effective remediation alternative, and will result in groundwater meeting water quality objectives in a reasonable time frame.
- Current dissolved-phase concentrations generally show declining or stable trends, and do not warrant active remediation or migration control.

ERI recommends:

- Conducting additional investigation to assess the presence and if applicable, extent of residual submerged separate phase gasoline in sediment north of the existing USTs (near the former location of boring B8).
- If the assessment indicates the presence of mobile or immobile submerged separate phase gasoline, Evaluating additional remedial options or focused source removal for the limited area of impact.
- Implementing MNA at the remainder of the site. If the additional assessment does not reveal the presence of mobile or immobile gasoline in submerged sediment, ERI recommends implementation of natural attenuation for the entire site.

Attachments: References

Table 1A:	Cumulative Groundwater Monitoring and Sampling Data
Table 1B:	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2:	Cumulative Laboratory Analysis of Soil Samples
Table 3:	Summary of Residual COCs Mass Calculations
Table 4:	Summary of Mass Calculations of Dissolved COCs
Table 5:	Comparison of Representative Concentrations to Groundwater Cleanup Objectives
Plate 1:	Site Vicinity Map
Plate 2:	Generalized Site Plan
Attachment A:	Regulatory Correspondence
Attachment B:	Chemical Properties
Attachment C:	Hydrographs
Attachment D:	Residual Mass Calculations
Attachment E:	VLEACH Analysis
Attachment F:	Dissolved-Phase Mass Calculations
Attachment G:	Regulatory Criteria

REFERENCES

American petroleum Institute (API). 1989. A Guide to Assessment and Remediation of Underground Petroleum Releases, API Publication 1628.

California Regional Water Quality Control Board, San Francisco Bay Region. July 2003: rev. September 2003 and February 2004. Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater (Interim Final), Appendix 1: Development of Tier 1 Lookup Tables.

Environmental Resolutions, Inc. (ERI) May 20, 2004. Feasibility Study for Natural Attenuation, Former Exxon Service Station 7-0249, 6301 Commerce Boulevard, Rohnert Park, California.

Environmental Resolutions, Inc. (ERI). September 17, 2004. Corrective Action Plan (CAP) for Former Exxon Service Station 7-0249, 6301 Commerce Boulevard, Rohnert Park, California.

Groundwater Services, Inc. (GSI). 2001. Risk-Based Corrective Action (RBCA) Tool Kit for Chemical Releases (ver. 1.3a)

Howard, 1989. Handbook of Environmental Degradation Rates, Lewis Publishers, Chelsea, Michigan.

DOCUMENT DISTRIBUTION

ERI recommends this CAP Addendum be forwarded to the following:

Mr. Dale Radford
Sonoma County Public Health Department
Environmental Health Division
3723 Airway Drive, Suite D
Santa Rosa, California 95403-2097

Mr. Tom Dunbar
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

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

Please contact Mr. Robert A Saur, ERI's project manager for this site, at (707) 766-2000 with any questions regarding this Revision.

Sincerely,
Environmental Resolutions, Inc.

SCANNED IMAGE

Robert A. Saur
Project Manager

SCANNED IMAGE

John B. Bobbitt
RG 4313

REGISTERED GEOLOGIST
JOHN BAILEY BOBBITT
exp 4-30-06
No 4313
STATE OF CALIFORNIA

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 10 of 17)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW13B (cont.)	05/21/97	NLPH	7.24	90.26	—	<50	<30	<0.5	<0.5	<0.5	<0.5
(97.50)	08/12/97	NLPH	8.56	88.94	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	03/27/98	—	—	—	—	—	—	—	—	—	—
	04/23/98	NLPH	4.52	92.98	—	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	6.44	91.06	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
(96.96)	10/21/98	NLPH	7.91	89.05	<50	<50	4.4	<0.5	<0.5	<0.5	0.92
	01/18/99	NLPH	6.92	90.04	<50	<50	54	<0.5	<0.5	<0.5	<0.5
	04/19/99	NLPH	4.61	92.35	65.6	<50	<2.0	<0.5	<0.5	<0.5	<0.5
	07/14/99	NLPH	6.89	90.07	84.5	<50	17.3	<0.5	<0.5	<0.5	<0.5
	10/28/99	NLPH	8.11	88.85	<50	64	35	<1	<1	<1	<1
	01/25-26/00	NLPH	8.25	88.71	60	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	5.19	91.77	<50	<50	19	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	6.72	90.24	<53	<50	20	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.34	88.62	<51	<50	20	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	8.70	88.26	74	<50	55	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	6.56	90.40	<50	<50	21	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	8.14	88.82	<50	<50	31	0.6	0.6	<0.5	2.44
	10/05/01	NLPH	8.74	88.22	<50	<50	74/91c	<0.5	<0.5	<0.5	<0.5
(96.95)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	4.25	92.70	<50.0	<50.0	26.6d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	5.25	91.70	<50.0	<50.0	7.10/6.1d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	6.76	90.19	94	<50	5.7/3.80c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.36	88.59	212	<50.0	23.8/25.0c	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	5.08	91.87	<50	<50.0	45.6/41.9c	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	5.32	91.63	<51	<50.0	10.4/14.5c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.22	90.73	—	—	—	—	—	—	—
	07/09/03	—	—	—	69	<50.0	12.5/14.0c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	7.41	89.54	<50	<50.0	20.9/24.8c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	3.90	93.05	<50	<50.0	28.3c	<0.50	<0.5	<0.5	0.7
	04/01/04	NLPH	—g	—g	<50	<50.0	11.8c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	6.84	90.11	<50.0	<50.0	2.1/2.06c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**6.53**	**90.42**	**58**	**<50.0**	**7.80c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW14A	06/22/89	NLPH	—	—	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
(98.22)	09/14/89	NLPH	11.08	87.14	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	12/22/89	NLPH	11.09	87.13	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	03/18/99	NLPH	10.30	87.92	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	06/08/90	NLPH	10.74	87.48	—	<MDL	—	<MDL	<MDL	<MDL	<MDL
	09/21/90	NLPH	—	—	—	1	—	—	—	—	—
	12/07/90	NLPH	12.55	85.67	—	<1	—	<0.3	<0.3	<0.3	<0.6
	5/7/91 - 10/28/99	No Data Available / Not Sampled			—	—	—	—	—	—	—
	01/25-26/00	NLPH	9.52	88.70	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	6.30	91.92	<50	<50	37	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	7.56	90.66	<53	<50	3.6	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.88	89.34	<51	<50	27	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	9.49	88.73	67	<50	35	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	7.57	90.65	<50	<50	39	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	8.74	89.48	<50	<50	12	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	9.24	88.98	<50	<50	22/21c	<0.5	<0.5	<0.5	<0.5
	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	5.38	92.84	<50.0	<50.0	53.1d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	6.31	91.91	<50.0	<50.0	48.9/44.8d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	7.37	90.85	<52	<50	17.6/14.7c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.96	89.26	224	<50.0	15.0/13.9c	<0.5	<0.5	<0.5	1.1
	01/06/03	NLPH	6.12	92.10	<50	<50.0	11.5/10.3c	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	6.44	91.78	<52	222	259/284c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.87	91.35	—	—	—	—	—	—	—
	07/09/03	—	—	—	52.0	348	364/374c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.42	89.80	<50	222	247/330c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.64	93.58	<50	<50.0	86.9c	<0.50	<0.5	<0.5	<0.5
	04/01/04	NLPH	5.67	92.55	<50	202	234c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	7.75	90.47	<50	<50.0	23.6/28.5c	<0.50	<0.5	<0.5	0.6
	11/17/04	**NLPH**	**7.81**	**90.41**	**<50**	**145**	**172c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW14B	06/22/89	NLPH	—	—	—	—	—	—	—	—	—
(98.19)	09/14/89	NLPH	11.05	87.14	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	12/22/89	NLPH	11.12	87.07	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	03/18/90	NLPH	11.21	86.98	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	06/08/90	NLPH	10.41	87.78	—	<MDL	—	<0.3	<0.3	<0.3	<0.6

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 11 of 17)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW14B (cont.)	09/21/90	NLPH	—	—	---	<MDL	—	<MDL	<MDL	<MDL	<MDL
(98.19)	12/07/90	NLPH	12.48	85.71	—	<1	---	<0.3	<0.3	<0.3	<0.6
	05/07/91	NLPH	10.77	87.42	—	<50	—	1.2	<0.5	<0.5	<0.5
	08/08/91	NLPH	11.47	86.72	—	<50	—	<0.5	0.6	<0.5	<0.5
	11/27/91	NLPH	12.53	85.66	—	<50	—	<0.5	<0.5	<0.5	<0.5
	02/26/92	NLPH	11.17	87.02	---	<50	—	<0.5	<0.5	<0.5	<0.5
	05/27/92	NLPH	9.61	88.58	—	<50	---	<0.5	<0.5	<0.5	<0.5
	11/02/93	NLPH	9.50	88.69	—	<50	—	<0.5	<0.5	<0.5	<0.5
	02/23/94	NLPH	8.05	90.14	—	<50	—	<0.5	<0.5	<0.5	<0.5
	06/01/94	NLPH	8.52	89.67	—	<50	---	<0.5	<0.5	<0.5	<0.5
	09/13/94	NLPH	9.82	88.37	—	<50	—	<0.5	<0.5	<0.5	<0.5
	11/16/94	NLPH	8.41	89.78	---	<50	—	<0.5	<0.5	<0.5	<0.5
	02/16/95	NLPH	5.52	92.67	—	<50	---	<0.5	<0.5	<0.5	<0.5
	05/31/95	NLPH	6.06	92.13	—	<50	—	<0.5	<0.5	<0.5	<0.5
	08/24/95	NLPH	7.80	90.39	---	<50	<10	<0.5	<0.5	<0.5	<0.5
	11/15/95	NLPH	9.15	89.04	—	<50	<10	<0.5	<0.5	<0.5	<0.5
	02/29/96	NLPH	5.46	92.73	—	<50	110	<0.5	<0.5	<0.5	<0.5
	05/30/96	NLPH	6.29	91.90	—	<50	39	<0.5	<0.5	<0.5	<0.5
	08/14/96	NLPH	7.88	90.31	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	11/26/96	NLPH	8.55	89.64	---	<50	220	<0.5	<0.5	<0.5	<0.5
	02/19/97	NLPH	6.31	91.88	---	<50	150	<0.5	<0.5	<0.5	<0.5
	05/21/97	NLPH	7.98	90.21	—	<50	110	<0.5	<0.5	<0.5	<0.5
	08/12/97	NLPH	9.26	88.93	—	<50	33	<0.5	<0.5	<0.5	<0.5
	03/27/98	—	—	—	---	—	—	---	—	—	—
	04/23/98	NLPH	5.46	92.73	—	<50	200	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	7.28	90.91	<50	<50	99	<0.5	<0.5	<0.5	<0.5
	10/21/98	NLPH	8.40	89.79	<50	<50	72	<0.5	<0.5	<0.5	<0.5
	01/18/99	NLPH	8.32	89.87	<50	<50	240	<0.5	<0.5	<0.5	<0.5
	04/19/99	NLPH	5.50	92.69	<50	<50	205	<0.5	<0.5	<0.5	<0.5
	07/14/99	NLPH	7.58	90.61	<50	<50	138	<0.5	<0.5	<0.5	<0.5
	10/28/99	NLPH	9.06	89.13	<50	<50	380	<1	<1	<1	<1
	01/25-26/00	NLPH	9.37	88.82	50	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	6.24	91.95	<50	<50	220	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	6.30	91.89	<53	<50	91	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.86	89.33	<51	<50	98	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	9.45	88.74	74	<50	620	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	7.51	90.68	<50	<50	480	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	8.75	89.44	<50	<50	75	<0.5	<0.5	<0.5	0.6
	10/05/01	NLPH	9.23	88.96	<50	<50	180/200c	<0.5	<0.5	<0.5	<0.5
(98.17)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	4.85	93.32	<50.0	180	508d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	6.27	91.90	<50.0	503	411/440d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	7.34	90.83	<51	85	97.4/103c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.92	89.25	191	<50.0	22.7/25.8c	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	8.08	90.09	<50	502	449/430c	<5.0	<5.0	<5.0	<5.0
	04/03/03	NLPH	6.42	91.75	<51	293	374/390c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.84	91.33	—	—	—	—	—	—	—
	07/09/03	—	—	—	77	<50.0	38.4/35.5c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.38	89.79	<50	86.1	85.5/93.9c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.62	93.55	<50	<50.0	102c	<0.50	<0.5	<0.5	0.7
	04/01/04	NLPH	5.66	92.51	<50	96.0	138c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	7.07	91.10	<0.50	<50.0	11.7/109c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**7.77**	**90.40**	**<50**	**<50.0**	**37.1c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW15A	03/18/90	NLPH	8.18	89.01	---	<PQL	—	<PQL	<PQL	<PQL	<PQL
(97.19)	06/08/90	NLPH	9.13	88.06	—	—	---	---	---	—	—
	09/21/90	NLPH	---	—	—	<MDL	—	<MDL	<MDL	<MDL	<MDL
	12/07/90	NLPH	11.67	85.52	---	<1	—	<0.3	<0.3	<0.3	<0.6
	5/7/91 - 10/28/99	No Data Available / Not Sampled			—	—	—	---	—	—	—
	01/25-26/00	NLPH	8.45	88.74	50	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	5.29	91.90	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	6.92	90.27	<53	<50	4.1	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.51	88.68	<51	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/03/01	---	—	—	---	—	—	---	---	—	—
	04/05/01	NLPH	6.61	90.58	<50	<50	7.5	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	8.21	88.98	<50	<50	4	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	8.70	88.49	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
(97.17)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW15A (cont.)	01/10/02	NLPH	4.18	92.99	65.0	<50.0	0.90d	0.80	<0.50	<0.50	<0.50
(97.17)	04/03/02	NLPH	5.32	91.85	<50.0	<50.0	11.9/9.6d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	6.98	90.19	<52	<50	3.3/2.60c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.56	88.61	192	<50.0	4.1/4.60c	<0.5	<0.5	<0.5	0.9
	01/06/03	NLPH	4.98	92.19	<50	<50.0	4.0/3.70c	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	5.40	91.77	<52	<50.0	42.4/44.6c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.29	90.88	<50.0	55.5	75.6/83.8c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	7.54	89.63	<50	<50.0	5.9/6.30c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	3.80	93.37	<50	<50.0	16.4c	<0.50	<0.5	<0.5	<0.5
	04/01/04	f	f	f	f	f	f	f	f	f	f
	08/19/04	NLPH	7.14	90.03	<50	<50.0	1.5/1.38c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**6.75**	**90.42**	**66**	**<50.0**	**1.90c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW15B	03/18/90	NLPH	8.18	89.00	—	<PQL	---	<PQL	<PQL	<PQL	<PQL
(97.18)	06/08/90	NLPH	8.96	88.22	—	—	—	—	—	—	---
	09/21/90	NLPH	---	—	—	<MDL	—	<MDL	<MDL	<MDL	<MDL
	12/07/90	NLPH	11.65	85.53	—	<1	—	<0.3	<0.3	<0.3	<0.3
	5/7/91 - 10/28/99	No Data Available / Not Sampled			---	—	—	---	---	—	—
	01/25-26/00	NLPH	8.73	88.45	50	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	5.30	91.88	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	6.92	90.26	<53	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.51	88.67	<51	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/03/01	—	---	—	—	---	—	—	—	---	---
	04/05/01	NLPH	6.61	90.57	---	—	—	---	---	—	—
	07/02/01	NLPH	8.24	88.94	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	8.85	88.33	<50	<50	4.5/5c	<0.5	<0.5	<0.5	<0.5
(97.17)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	4.17	93.00	<50.0	<50.0	2.60d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	5.32	91.85	<50.0	<50.0	3.10/2.0d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	6.96	90.21	74	<50	4.9/4.40c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.51	88.66	115	<50.0	43.4/44.6c	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	4.98	92.19	<50	<50.0	2.1/2.00c	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	5.39	91.78	<51	<50.0	5.8/6.10c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.38	90.79	<50	<50.0	8.7/9.60c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	7.51	89.67	<50	<50.0	2.8/2.90c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	3.85	93.33	<50	<50.0	11.4c	<0.50	<0.5	<0.5	<0.5
	04/01/04	f	f	f	f	f	f	f	f	f	f
	08/19/04	NLPH	7.01	90.16	<50	<50.0	6.8/5.50c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**6.72**	**90.45**	**<50**	**<50.0**	**1.20c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW16A	03/18/90	NLPH	8.60	88.96	—	<PQL	---	<PQL	<PQL	<PQL	<PQL
(98.56)	06/08/90	NLPH	9.85	87.71	---	<MDL	—	<MDL	<MDL	<MDL	<MDL
	09/21/90	NLPH	—	—	---	<MDL	—	<MDL	<MDL	<MDL	<MDL
	12/07/90	NLPH	12.51	85.05	—	<1	---	<0.3	<0.3	<0.3	<0.6
	5/7/91 - 10/28/99	No Data Available / Not Sampled			—	—	—	—	—	—	—
	01/25-26/00	NLPH	9.03	89.53	60	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	6.58	91.98	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	8.19	90.37	<53	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	9.75	88.81	<51	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	9.88	88.68	120	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	7.66	90.90	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	9.35	89.21	<62	<50	<2	1.7	<0.5	<0.5	0.66
	10/05/01	NLPH	10.12	88.44	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
(98.53)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	5.45	93.08	50.0	<50.0	<0.50d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	6.48	92.05	53.0	<50.0	<0.50	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	8.31	90.22	53	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	9.91	88.62	92	<50.0	<0.5	0.9	0.6	0.8	2.2
	01/06/03	NLPH	5.84	92.69	<50	<50.0	0.5/<0.50c	1.4	0.9	<0.5	1.1
	04/03/03	NLPH	6.71	91.82	<51	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	7.67	90.86	<50	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.87	89.66	<50	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.52	94.01	58	<50.0	<0.50c	<0.50	<0.5	<0.5	0.8
	04/01/04	NLPH	6.07	92.46	67	<50.0	<1.0	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	8.62	89.91	97	<50.0	<0.5	<0.50	<0.5	<0.5	0.7
	11/17/04	**NLPH**	**8.15**	**90.38**	**156**	**<50.0**	**<0.50c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 13 of 17)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW16B	03/18/90	NLPH	8.48	89.88	---	<PQL	---	<0.3	<PQL	<PQL	<PQL
(98.36)	06/08/90	NLPH	9.91	88.45	—	—	—	—	—	—	—
	09/21/90	NLPH	—	—	—	<MDL	—	<MDL	<MDL	<MDL	<MDL
	12/07/90	NLPH	12.36	86	—	<1	---	<0.3	0.4	<0.3	<0.6
	05/07/91	NLPH	9.88	88.48	---	<50	—	<0.5	<0.5	<0.5	<0.5
	08/08/91	NLPH	11.7	86.66	—	<50	—	<0.5	0.5	<0.5	<0.5
	11/27/91	NLPH	12.54	85.82	—	<50	---	<0.5	<0.5	<0.5	<0.5
	02/26/92	NLPH	9.73	88.63	---	<50	—	<0.5	<0.5	<0.5	<0.5
	05/27/92	NLPH	8.94	89.42	—	<50	—	<0.5	<0.5	<0.5	<0.5
	11/02/93	NLPH	10.14	88.22	---	<50	---	<0.5	<0.5	<0.5	<0.5
	02/23/94	NLPH	7.1	91.26	—	<50	—	<0.5	<0.5	<0.5	<0.5
	06/01/94	NLPH	8.61	89.75	—	<50	—	<0.5	<0.5	<0.5	<0.5
	09/13/94	NLPH	9.62	88.74	—	<50	---	<0.5	<0.5	<0.5	<0.5
	11/16/94	NLPH	8.15	90.21	---	<50	---	<0.5	<0.5	<0.5	<0.5
	02/16/95	NLPH	4.68	93.68	---	<50	—	<0.5	<0.5	<0.5	<0.5
	05/31/95	NLPH	5.72	92.64	—	<50	—	<0.5	<0.5	<0.5	<0.5
	08/24/95	NLPH	8.6	89.76	—	<50	<10	<0.5	<0.5	<0.5	<0.5
	11/15/95	NLPH	9.7	88.66	—	<50	<10	<0.5	<0.5	<0.5	<0.5
	02/29/96	NLPH	4.9	93.46	—	<50	<50	<0.5	<0.5	<0.5	<0.5
	05/30/96	NLPH	5.52	92.84	---	<50	<30	<0.5	<0.5	<0.5	<0.5
	08/14/96	NLPH	8.58	89.78	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	11/26/96	NLPH	8.73	89.63	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	02/19/97	NLPH	5.80	92.56	---	<50	<30	<0.5	0.50	<0.5	1.3
	05/21/97	NLPH	8.22	90.14	—	<50	<30	<0.5	0.50	<0.5	<0.5
	08/12/97	NLPH	9.40	88.96	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	03/27/98	---	---	---	---	---	---	---	---	---	---
	04/23/98	NLPH	5.42	92.94	—	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	7.85	90.51	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
(98.40)	10/21/98	NLPH	9.19	89.21	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	01/18/99	NLPH	8.08	90.32	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	04/19/99	NLPH	5.39	93.01	<50	<50	<2.0	<0.5	<0.5	<0.5	<0.5
	07/14/99	NLPH	8.24	90.16	<50	<50	3.6	<0.5	<0.5	<0.5	<0.5
	10/28/99	NLPH	9.60	88.80	<50	<50	6.7	<1	<1	<1	<1
	01/25-26/00	NLPH	8.92	89.48	70	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	6.45	91.95	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	8.04	90.36	<53	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	9.58	88.82	<51	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	9.74	88.66	130	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	7.50	90.90	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	9.76	88.64	<56	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	10.55	87.85	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
(98.39)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	6.73	91.66	50.0	<50.0	<0.50d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	6.30	92.09	<50.0	<50.0	<0.50	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	8.17	90.22	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	9.62	88.77	206	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	5.69	92.70	<50	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	6.55	91.84	<51	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	7.54	90.85	<50	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.81	89.58	<50	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.54	93.85	<50	<50.0	<0.50c	<0.50	<0.5	<0.5	<0.5
	04/01/04	NLPH	5.88	92.51	<50	<50.0	<0.50c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	8.34	90.05	115	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**7.95**	**90.44**	**<50**	**<50.0**	**<0.50c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW17A	06/22/89	NLPH	—	—	—	—	—	—	—	—	---
(97.33)	09/14/89	NLPH	---	—	---	---	---	—	—	—	—
	12/22/89	NLPH	—	—	—	---	---	---	---	—	—
	03/18/90	NLPH	8.29	89.04	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
	06/08/90	NLPH	9.14	88.19	—	<MDL	—	—	—	—	—
	09/21/90	NLPH	---	---	---	<MDL	---	<MDL	<MDL	<MDL	<MDL
	12/07/90	NLPH	11.54	85.79	—	<1	---	<0.3	<0.3	<0.3	<0.6
	05/07/91	NLPH	9.37	87.96	—	<50	—	<0.5	<0.5	<0.5	<0.5
	08/08/91	NLPH	10.78	86.55	—	<50	—	<0.5	0.6	<0.5	<0.5
	11/27/91	NLPH	11.69	85.64	—	<50	—	<0.5	<0.5	<0.5	<0.5
	02/26/92	NLPH	9.12	88.21	---	<50	---	<0.5	<0.5	<0.5	<0.5
	05/27/92	NLPH	8.55	88.78	—	<50	—	<0.5	<0.5	<0.5	<0.5
	11/02/93	NLPH	9.21	88.12	—	<50	—	<0.5	<0.5	<0.5	<0.5
	02/23/94	NLPH	6.42	90.91	---	<50	---	<0.5	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW17A (cont.)	06/01/94	NLPH	7.76	89.57	---	<50	—	<0.5	<0.5	<0.5	<0.5
(97.33)	09/13/94	NLPH	9.05	88.28	---	<50	—	<0.5	<0.5	<0.5	<0.5
	11/16/94	NLPH	6.85	90.48	—	<50	—	0.52	<0.5	<0.5	<0.5
	02/16/95	NLPH	4.4	92.93	—	<50	---	<0.5	<0.5	<0.5	<0.5
	05/31/95	NLPH	5.42	91.91	---	<50	—	<0.5	<0.5	<0.5	<0.5
	08/24/95	NLPH	7.5	89.83	—	<50	15	<0.5	<0.5	<0.5	<0.5
	11/15/95	NLPH	9.6	87.73	---	<50	300	<0.5	<0.5	<0.5	<0.5
	02/29/96	NLPH	4.2	93.13	—	<50	370	<0.5	<0.5	<0.5	<0.5
	05/30/96	NLPH	5.64	91.69	—	<50	570	<0.5	<0.5	<0.5	<0.5
	08/14/96	NLPH	7.47	89.86	---	<50	290	<0.5	<0.5	<0.5	<0.5
	11/26/96	NLPH	7.67	89.66	—	<500	670	<5	<5	<5	<5
	02/19/97	NLPH	5.36	91.97	—	<50	630	<0.5	<0.5	<0.5	<0.5
	05/21/97	NLPH	7.86	89.47	—	<50	890	<0.5	<0.5	<0.5	<0.5
	08/12/97	NLPH	8.74	88.59	---	<50	770	<0.5	<0.5	<0.5	<0.5
	03/27/98	—	—	—	—	—	—	—	—	—	—
	04/23/98	NLPH	4.70	92.63	—	<50	49	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	6.74	90.59	<50	<50	270	<0.5	<0.5	<0.5	<0.5
(97.47)	10/21/98	NLPH	8.10	89.37	58	<50	330	<0.5	<0.5	<0.5	<0.5
	01/18/99	NLPH	7.15	90.32	<50	<50	530	<0.5	<0.5	<0.5	0.5
	04/19/99	NLPH	4.81	92.66	57.3	<100	531	<1.0	<1.0	<1.0	<1.0
	07/14/99	NLPH	7.07	90.40	57.1	<50	587	4.80	0.870	<0.5	0.637
	10/28/99	NLPH	8.24	89.23	<50	<50	1,100	<1	<1	<1	<1
	01/25-26/00	NLPH	8.12	89.35	60	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	5.54	91.93	<50	<50	1,200	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	7.05	90.42	<53	<50	450	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.46	89.01	<51	<50	750	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	8.97	88.50	51	<50	1,300	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	6.82	90.65	<50	<500	1,100	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	8.34	89.13	<50	<50	880	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	8.90	88.57	<50	<50	680/890c	<0.5	<0.5	<0.5	<0.5
(97.39)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	4.04	93.35	<50.0	539	1,520d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	5.59	91.80	<50.0	1,110	912/750d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	7.04	90.35	76	888	1,090/906c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.58	88.81	211	461	573/744c	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	5.21	92.18	68	507	509/466c	<5.0	<5.0	<5.0	<5.0
	04/03/03	NLPH	5.68	91.71	<50	606	766/805c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.50	90.89	<50	270	400/420c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	7.57	89.82	<50	113	97.6/97.2	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	3.75	93.64	<50	<50.0	38.1c	<0.50	<0.5	<0.5	<0.5
	04/01/04	NLPH	5.05	92.34	54	88.0	120c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	7.28	90.11	58	<50.0	27.8/25.0c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**7.05**	**90.34**	**<50**	**<50.0**	**2.60c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW17B	03/18/90	NLPH	8.31	89.11	—	<PQL	—	<PQL	<PQL	<PQL	<PQL
(97.42)	06/08/90	NLPH	9.13	88.29	—	<MDL	---	—	—	—	—
	09/21/90	NLPH	—	—	---	<MDL	---	<MDL	<MDL	<MDL	<MDL
	12/07/90	NLPH	11.63	85.79	---	<1	—	<0.3	<0.3	<0.3	<0.6
	05/07/91	NLPH	9.44	87.98	—	<50	—	<0.5	<0.5	<0.5	<0.5
	08/08/91	NLPH	10.88	86.54	—	<50	—	0.6	0.6	<0.5	<0.5
	11/27/91	NLPH	11.75	85.67	---	<50	---	<0.5	<0.5	<0.5	<0.5
	02/26/92	NLPH	9.14	88.28	—	<50	---	<0.5	<0.5	<0.5	<0.5
	05/27/92	NLPH	8.60	88.82	—	<50	—	<0.5	<0.5	<0.5	<0.5
	11/02/93	NLPH	9.24	88.18	---	<50	—	<0.5	<0.5	<0.5	<0.5
	02/23/94	NLPH	6.42	91.00	—	<50	—	<0.5	<0.5	<0.5	<0.5
	06/01/94	NLPH	7.80	89.62	—	<50	—	<0.5	<0.5	<0.5	<0.5
	09/13/94	NLPH	9.07	88.35	—	<50	—	<0.5	<0.5	<0.5	<0.5
	11/16/94	NLPH	6.86	90.56	—	<50	---	<0.5	<0.5	<0.5	<0.5
	02/16/95	NLPH	4.10	93.32	---	<50	---	<0.5	<0.5	<0.5	<0.5
	05/31/95	NLPH	6.00	91.42	—	<50	—	<0.5	<0.5	<0.5	<0.5
	08/24/95	NLPH	7.50	89.92	—	<50	13	<0.5	<0.5	<0.5	<0.5
	11/15/95	NLPH	8.45	88.97	—	<50	280	<0.5	<0.5	<0.5	<0.5
	02/29/96	NLPH	4.56	92.86	—	<50	320	<0.5	<0.5	<0.5	<0.5
	05/30/96	NLPH	5.60	91.82	---	<50	180	<0.5	<0.5	<0.5	<0.5
	08/14/96	NLPH	7.43	89.99	—	<50	590	<0.5	<0.5	<0.5	0.83
	11/26/96	NLPH	8.45	88.97	—	<500	750	<5	<5	<5	<5
	02/19/97	NLPH	5.09	92.33	---	<50	620	<0.5	<0.5	<0.5	0.58
	05/21/97	NLPH	7.37	90.05	—	<50	800	<0.5	<0.5	<0.5	<0.5
	08/12/97	NLPH	8.73	88.69	—	<50	930	<0.5	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 15 of 17)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW17B (cont.)	03/27/98	---	—	—	—	---	—	—	—	—	—
(97.42)	04/23/98	NLPH	4.62	92.80	—	<50	880	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	6.67	90.75	<50	<50	880	<0.5	<0.5	<0.5	<0.5
	10/21/98	NLPH	8.04	89.34	52	<50	710	<0.5	<0.5	<0.5	<0.5
	01/18/99	NLPH	7.00	90.38	<50	<50	590	<0.5	<0.5	<0.5	<0.5
	04/19/99	NLPH	4.69	92.69	50.9	<250	824	<2.5	<2.5	<2.5	<2.5
	07/14/99	NLPH	7.00	90.38	55.5	<50	560	5.2	<0.5	<0.5	<0.5
	10/28/99	NLPH	8.14	89.24	<50	67	1,000	1.9	2.5	1.6	6.4
	01/25-26/00	NLPH	8.24	89.14	50	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	5.38	92.00	<50	<50	710	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	6.95	90.43	<53	<50	840	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	8.56	88.82	<51	<50	990	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	8.83	88.55	52	<50	1,100	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	6.67	90.71	<50	<500	930	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	9.55	87.83	<50	<50	900	<0.5	<0.5	<0.5	0.76
	10/05/01	NLPH	10.23	87.15	<50	<50	1,200/1,700c	<0.5	<0.5	<0.5	<0.5
(97.37)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	5.05	92.32	<50.0	456	1,490d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	5.43	91.94	<50.0	1,210	979/1,020d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	6.91	90.46	<52	1,010	1,320/1,040c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	8.45	88.92	210	933	1,140/1,420c	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	5.02	92.35	<50	1,030	890/807c	<10.0	<10.0	<10.0	<10.0
	04/03/03	NLPH	5.54	91.83	<52	696	861/975c	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	6.37	91.00	<50	404	567/640c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	7.42	89.95	<50	214	213/300c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	3.60	93.77	<50	74.9	189c	<0.50	<0.5	<0.5	<0.5
	04/01/04	NLPH	4.89	92.48	<50	88.0	123c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	7.15	90.22	<50	85.0	109/103c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**6.88**	**90.49**	**<50**	**88.2**	**93.3c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW18A	11/26/96	NLPH	9.43	89.87	—	480	<30	<0.5	<0.5	<0.5	<0.5
(99.30)	02/19/97	NLPH	7.07	92.23	—	1,700	<60	4.8	<1	3.2	14
	05/21/97	NLPH	8.84	90.46	—	1,200	<30	1.0	0.77	8.1	2.9
	08/12/97	NLPH	9.86	89.44	---	760	<30	<0.5	<0.5	0.69	0.81
	03/27/98	NLPH	6.02	93.28	—	1,900	170c	53	5.9	55	12
	04/23/98	NLPH	6.33	92.97	---	2,100	280	55	7.7	48	12
	07/23/98	NLPH	8.32	90.98	150	930	150	16	1.3	3.6	0.76
(99.31)	10/21/98	NLPH	9.45	89.86	200	430	19	<0.5	7.4	<0.5	<0.5
	01/18/99	NLPH	8.94	90.37	270	780	29	<0.5	<0.5	3.5	0.66
	04/19/99	NLPH	6.28	93.03	281	1,200	65.6	10.4	<1.0	12.4	<1.0
	07/14/99	NLPH	8.40	90.91	208	888	65.7	20.5	3.80	7.00	1.40
(99.31)	10/28/99	NLPH	9.62	89.69	<50	410	12	<1	<1	<1	<1
	01/25-26/00	NLPH	9.63	89.68	100	<50	3.4	<0.5	<0.5	<0.5	<0.5
	4/10-11/00	NLPH	7.21	92.10	120	970	16	3.9	<0.5	4.10	0.55
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	8.45	90.86	<53	740	15	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	9.59	89.72	<51	240	2.8	2.1	<0.5	<0.5	<0.5
	01/03/01	NLPH	10.34	88.97	110	330	<2	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	8.18	91.13	79	230	<2	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	9.53	89.78	<56	360	3.9	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	9.86	89.45	<50	190	<2	<0.5	<0.5	<0.5	<0.5
	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	7.75	91.55	50.0	159	4.30/0.5c	2.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	7.18	92.12	57.0	416	8.80/0.8d	5.00	0.70	<0.50	<0.50
	07/02/02	NLPH	8.31	90.99	<51	133	2.2/1.00c	2.0	<0.5	<0.5	<0.5
	10/03/02	NLPH	9.67	89.63	214	213	<0.5	2.9	<0.5	<0.5	<0.5
	01/06/03	NLPH	6.85	92.45	<50	174	2.0/<0.50c	2.3	<0.5	<0.5	<0.5
	04/03/03	NLPH	7.32	91.98	<52	306	<0.5	3.90	0.7	<0.5	<0.5
	07/08/03	NLPH	7.64	91.66	<50	152	1.6/<0.50c	2.10	<0.5	<0.5	<0.5
	11/10/03	NLPH	9.04	90.26	94	260	3.0/<0.50c	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	5.07	94.23	159	1,800	7.40c	<0.50	2.4	35.7	5.4
	04/01/04	NLPH	6.55	92.75	<50	638	5.5c	6.90	<0.5	3.3	1.0
	08/19/04	NLPH	8.78	90.52	62	193	1.9/0.62c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**8.89**	**90.41**	**<50.0**	**<50**	**<0.50c**	**<0.50**	**<0.5**	**<0.5**	**0.8**
MW18B	11/26/96	NLPH	9.15	89.76	---	<50	<30	<0.5	<0.5	<0.5	<0.5
(98.91)	02/19/97	NLPH	6.55	92.36	—	<50	<30	<0.5	<0.5	<0.5	1.4
	05/21/97	NLPH	8.59	90.32	---	<50	<30	<0.5	<0.5	<0.5	<0.5
	08/12/97	NLPH	9.76	89.15	—	<50	<30	<0.5	<0.5	<0.5	<0.5

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW18B (cont.)	03/27/98	NLPH	5.63	93.28	—	<50	14c	<0.5	<0.5	<0.5	<0.5
(98.91)	04/23/98	NLPH	5.95	92.96	—	<50	18	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	7.96	90.95	<50	<50	30	<0.5	<0.5	<0.5	<0.5
(98.92)	10/21/98	NLPH	9.06	89.86	<50	<50	17	<0.5	<0.5	<0.5	<0.5
	01/18/99	NLPH	8.53	90.39	58	<50	19	<0.5	<0.5	<0.5	<0.5
	04/19/99	NLPH	5.94	92.98	94.1	<50	16.8	<0.5	<0.5	<0.5	<0.5
	07/14/99	NLPH	8.08	90.84	100.0	<50	15.6	1.8	4.5	0.99	5.5
	10/28/99	NLPH	9.37	89.55	<50	74	18	2.9	4	2.4	9.4
	01/25-26/00	NLPH	9.73	89.19	60	<50	<2	<0.5	<0.5	<0.5	<0.5
	4/10-11/00	NLPH	6.86	92.06	<50	<50	3.7	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	8.08	90.84	<50	<50	4.6	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	9.22	89.70	<51	<50	2.7	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	9.97	88.95	80	<50	2.8	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	7.80	91.12	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	9.11	89.81	<56	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	9.52	89.40	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
(98.91)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	5.52	93.39	50.0	<50.0	0.70d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	6.83	92.08	<50.0	<50.0	1.20/0.8d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	7.94	90.97	<53	<50	2.4/1.10c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	9.31	89.60	207	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	6.47	92.44	<50	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	6.93	91.98	<51	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	7.29	91.62	60	<50.0	1.1/1.10c	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.70	90.21	<50	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.73	94.18	<50	<50.0	1.00c	<0.50	<0.5	<0.5	<0.5
	04/01/04	NLPH	6.20	92.71	<50	<50.0	1.6c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	8.42	90.49	56	<50.0	0.9/0.88c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**8.51**	**90.40**	**<50**	**<50.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW19	11/26/96	NLPH	10.21	89.13	—	<50	<30	<0.5	<0.5	<0.5	<0.5
(99.34)	02/19/97	NLPH	6.95	92.39	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	05/21/97	NLPH	9.18	90.16	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	08/12/97	NLPH	10.35	88.99	—	<50	<30	<0.5	<0.5	<0.5	<0.5
	03/27/98	NLPH	5.91	93.43	—	<50	<2.0c	<0.5	<0.5	<0.5	<0.5
	04/23/98	NLPH	6.27	93.07	—	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	07/23/98	NLPH	8.51	90.83	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
(99.35)	10/21/98	NLPH	9.70	89.65	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	01/18/99	NLPH	9.15	90.20	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	04/19/99	NLPH	6.28	93.07	<50	<50	<2.0	<0.5	<0.5	<0.5	<0.5
	07/14/99	NLPH	8.71	90.64	<50	<50	132	<0.5	<0.5	<0.5	<0.5
	10/28/99	NLPH	10.18	89.17	<50	<50	2.8	<1	<1	<1	<1
	01/25-26/00	NLPH	10.21	89.14	60	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/10/00	NLPH	6.28	93.07	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	06/16/00	Property transfer to Valero Refining Company.									
	07/03/00	NLPH	8.65	90.70	<53	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/02/00	NLPH	9.95	89.40	<51	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/03/01	NLPH	10.43	88.92	82	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/05/01	NLPH	8.21	91.14	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/02/01	NLPH	9.61	89.74	<62	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/05/01	NLPH	10.18	89.17	<50	<50	<2	<0.5	<0.5	<0.5	<0.5
(99.34)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	5.42	93.92	50.0	<50.0	<0.50d	<0.50	<0.50	<0.50	<0.50
	04/03/02	NLPH	7.19	92.15	<50.0	<50.0	<0.50	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	8.60	90.74	<54	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	10.06	89.28	233	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	6.77	92.57	74	<50.0	0.6/<0.50c	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	7.35	91.99	<51	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	07/08/03	NLPH	7.90	91.44	63	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.41	90.93	61	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.50	94.84	<50	<50.0	<0.50c	<0.50	<0.5	<0.5	<0.5
	04/01/04	NLPH	6.65	92.69	<50	<50.0	<0.50c	<0.50	<0.5	<0.5	<0.5
	08/19/04	NLPH	9.14	90.20	<50	<50.0	<0.5	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**9.06**	**90.28**	**<50**	**<50.0**	**<0.50c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 17 of 17)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X
		<.....feet.....>			<.....ug/L.....>						
MW20A	06/16/00	Property transfer to Valero Refining Company.									
(98.65)	10/05/01	NLPH	9.46	89.19	<50	<50	1,800/1,900c	<0.5	<0.5	<0.5	<0.5
	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	5.03	93.62	<50.0	614	1,630d	0.60	<0.50	<0.50	<0.50
	04/03/02	NLPH	6.51	92.14	<50.0	2,020	1,540/1,600d	0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	7.71	90.94	<57	3,430	4,240/1,680c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	9.16	89.49	127	1,380	1,720/1,860c	0.5	<0.5	<0.5	<0.5
	01/06/03	NLPH	6.22	92.43	152	2,030	2,200/2,070c	0.7	<0.5	<0.5	<0.5
	04/03/03	NLPH	6.70	91.95	<50	1,330	1,710/1,910c	0.60	<0.5	<0.5	<0.5
	07/08/03	NLPH	7.19	91.46	60	401	445/478c	0.70	<0.5	<0.5	<0.5
	11/10/03	NLPH	8.39	90.26	<50	204	126/129c	0.80	<0.5	<0.5	<0.5
	02/20/04	NLPH	4.39	94.26	<50	358	80.6c	4.10	1.6	6.6	9.2
	04/01/04	NLPH	5.92	92.73	62	212	43.8c	0.50	<0.5	1.0	0.6
	08/19/04	NLPH	8.14	90.51	<50	62.2	27.4/25.3c	0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**8.15**	**90.50**	**53**	**59.7**	**18.5c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
MW20B	06/16/00	Property transfer to Valero Refining Company.									
(98.62)	10/05/01	NLPH	9.41	89.21	<50	220	600/760c	<0.5	0.91	<0.5	<0.5
(98.62)	11/01/01	Well surveyed in compliance with AB 2886 requirements.									
	01/10/02	NLPH	4.86	93.76	<50.0	606	1,500d	1.20	<0.50	<0.50	7.30
	04/03/02	NLPH	6.51	92.11	<50.0	3,790	4,520/3,270d	<0.50	<0.50	<0.50	<0.50
	07/02/02	NLPH	7.67	90.95	<52	1,770	2,140/3,600c	<0.5	<0.5	<0.5	<0.5
	10/03/02	NLPH	9.12	89.50	114	2,120	2,550/2,920c	0.9	<0.5	<0.5	<0.5
	01/06/03	NLPH	6.15	92.47	59	1,110	1,250/1,220c	<0.5	<0.5	<0.5	<0.5
	04/03/03	NLPH	6.64	91.98	<51	340	121/123c	2.50	1.1	<0.5	1.7
	07/08/03	NLPH	7.14	91.48	65	93.6	22.6/21.1c	0.60	0.8	<0.5	<0.5
	11/10/03	NLPH	8.31	90.31	77	483	16.6/7.70c	13.8	1.0	<0.5	1.2
	02/20/04	NLPH	4.30	94.32	<50	160	6.70c	2.00	2.0	<0.5	<0.5
	04/01/04	NLPH	5.89	92.73	<50	127	4.3c	1.20	<0.5	<0.5	<0.5
	08/19/04	NLPH	8.10	90.52	<50	<50.0	3.3/2.78c	<0.50	<0.5	<0.5	<0.5
	11/17/04	**NLPH**	**8.12**	**90.50**	**<50**	**64.4**	**1.60c**	**<0.50**	**<0.5**	**<0.5**	**<0.5**
TW1	5/4/93 - Present Not Sampled.			—	—	—	—	—	—	—	—
(99.36)	08/14/01	Well Destroyed									
TW2	5/4/93 - Present Not Sampled.			—	—	—	—	—	—	—	—
	08/15/01	Well Destroyed									

Notes:

SUBJ	=	Results of subjective evaluation.
NLPH	=	No liquid-phase hydrocarbons present in well.
TOC	=	Elevation of top of well casing; relative to mean sea level.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater surface; relative to mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified) or 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified) or 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020 or 8021B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
—	=	Not analyzed/not applicable.
<	=	Less than the indicated reporting limit shown by the laboratory.
<PQL	=	Less than the practical quantitation levels per Environmental Protection Agency (EPA) Federal Register.
<MDL	=	Less than the laboratory method detection limit.
ug/L	=	Micrograms per liter.
a	=	Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two.
b	=	Elevation of casing altered during construction.
c	=	MTBE confirmation analysis using EPA Method 8260B.
d	=	MTBE analyzed using EPA Method 8021B. MTBE results confirmed by GC/MS Method 8260.
e	=	Elevated reporting limit used; result is suspect.
f	=	Well inaccessible.
g	=	Data lost due to PDA malfunction.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<----------	ug/L	----------	----------	----------	---------->	
MW1	**Well Destroyed In 1987.**							
MW2	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	<500
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/03/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	73.0	<50.0	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW3	**Well Destroyed In 1989.**							
MW4	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	
MW4 (cont.)	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	08/15/01	**Well Destroyed**						
MW5	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	
MW5 (cont.)	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<25	<1,200	<25	<25	<6,200
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	08/15/01	Well Destroyed						
MW6	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	08/18/93	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	<500
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<---ug/L--->						
MW6 (cont.)	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	08/15/01	**Well Destroyed**						
MW7	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	06/03/93	—	—	—	—	—	—	—
	08/18/93	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<13	<670	<13	<13	<3,300
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	08/15/01	Well Destroyed						
MW8								
	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	
MW8 (cont.)	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	06/03/93	—	—	—	—	—	—	—
	08/18/93	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<5.0	<250	<5.0	<5.0	<1,200
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	08/14/01	**Well Destroyed**						
MW10	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	06/03/93	Not Sampled due to presence of sheen.						
	08/18/93	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<---ug/L--->						
MW10 (cont.)	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<12	<620	<12	<12	<3,100
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	08/14/01	**Well Destroyed**						
MW11	01/13/88	—	—	—	—	—	—	—
	06/10/88	—	—	—	—	—	—	—
	09/13/88	—	—	—	—	—	—	—
	12/07/88	—	—	—	—	—	—	—
	03/07/89	—	—	—	—	—	—	—
	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	—	—	—	—	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<----------		ug/L			---------->	
MW11 (cont.)	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	11/01/01	Well surveyed in compliance with AB 2886 requirements.						—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	07/09/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	11.5	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW12A	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	Inaccessible	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	<500
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	1/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	4/10-11/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	
MW12A (cont.)	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW12B	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	Inaccessible						
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	<500
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	4/10-11/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———		ug/L			———>	
MW13A	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	5/7/91 - 10/28/99	No Data Available / Not Sampled			—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	07/09/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW13B	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	06/03/93	—	—	—	—	—	—	—
	08/18/93	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	—	—	—	—	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<----------	----------	ug/L	----------	----------	---------->	
MW13B (cont'd)	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	07/09/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW14A	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/99	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	5/7/91-10/28/99		No Data Available / Not Sampled		—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	07/09/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<26.5	—	—	—
	02/20/04	<0.50	4.80	<0.50	<0.50	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW14B	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<——ug/L——>						
MW14B (cont.)	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	—	—	—	—	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	07/09/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW15A	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	5/7/91-10/28/99	No Data Available / Not Sampled			—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	—	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW15B	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	5/7/91-10/28/99	No Data Available / Not Sampled			—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<----------		ug/L			---------->	
MW15B (cont.)	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	—	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
MW16A	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	5/7/91-10/28/99	No Data Available / Not Sampled			—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW16B	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	—	—	—	—	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<----------	ug/L	---------->				
MW16B (cont.)	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW17A	06/22/89	—	—	—	—	—	—	—
	09/14/89	—	—	—	—	—	—	—
	12/22/89	—	—	—	—	—	—	—
	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	—	—	—	—	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<——ug/L——>						
MW17A (cont.)	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	250	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW17B	03/18/90	—	—	—	—	—	—	—
	06/08/90	—	—	—	—	—	—	—
	09/21/90	—	—	—	—	—	—	—
	12/07/90	—	—	—	—	—	—	—
	05/07/91	—	—	—	—	—	—	—
	08/08/91	—	—	—	—	—	—	—
	11/27/91	—	—	—	—	—	—	—
	02/26/92	—	—	—	—	—	—	—
	05/27/92	—	—	—	—	—	—	—
	11/02/93	—	—	—	—	—	—	—
	02/23/94	—	—	—	—	—	—	—
	06/01/94	—	—	—	—	—	—	—
	09/13/94	—	—	—	—	—	—	—
	11/16/94	—	—	—	—	—	—	—
	02/16/95	—	—	—	—	—	—	—
	05/31/95	—	—	—	—	—	—	—
	08/24/95	—	—	—	—	—	—	—
	11/15/95	—	—	—	—	—	—	—
	02/29/96	—	—	—	—	—	—	—
	05/30/96	—	—	—	—	—	—	—
	08/14/96	—	—	—	—	—	—	—
	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	—	—	—	—	—
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	202	—	—	—
	02/20/04	<0.50	<0.50	<0.50	108	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW18A	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	
MW18A (cont.)	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	4/10-11/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	86.9	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW18B	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	<500
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—
	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	4/10-11/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW19	11/26/96	—	—	—	—	—	—	—
	02/19/97	—	—	—	—	—	—	—
	05/21/97	—	—	—	—	—	—	—
	08/12/97	—	—	—	—	—	—	—
	03/27/98	—	—	<2.0	<100	<2.0	<2.0	<500
	04/23/98	—	—	—	—	—	—	—
	07/23/98	—	—	—	—	—	—	—
	10/21/98	—	—	—	—	—	—	—
	01/18/99	—	—	—	—	—	—	—
	04/19/99	—	—	—	—	—	—	—

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	
MW19 (cont.)	07/14/99	—	—	—	—	—	—	—
	10/28/99	—	—	—	—	—	—	—
	01/25-26/00	—	—	—	—	—	—	—
	04/10/00	—	—	—	—	—	—	—
	06/16/00	Property transfer to Valero Refining Company.						
	07/03/00	—	—	—	—	—	—	—
	10/02/00	—	—	—	—	—	—	—
	01/03/01	—	—	—	—	—	—	—
	04/05/01	—	—	—	—	—	—	—
	07/02/01	—	—	—	—	—	—	—
	10/05/01	—	—	—	—	—	—	—
	11/01/01	Well surveyed in compliance with AB 2886 requirements.						
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	<10.0	—	—	—
	02/20/04	<0.50	<0.50	<0.50	<10.0	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW20A	06/16/00	Property transfer to Valero Refining Company.						
	10/05/01	—	—	—	—	—	—	—
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	209	—	—	—
	02/20/04	<0.50	<0.50	<0.50	604	<0.50	<0.50	—
	04/01/04	—	—	—	199	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
MW20B	06/16/00	Property transfer to Valero Refining Company.						
	10/05/01							
	01/10/02	—	—	—	—	—	—	—
	04/03/02	—	—	—	—	—	—	—
	07/02/02	—	—	—	—	—	—	—
	10/03/02	—	—	—	—	—	—	—
	01/06/03	—	—	—	—	—	—	—
	04/03/03	—	—	—	—	—	—	—
	07/08/03	—	—	—	—	—	—	—
	11/10/03	—	—	—	309	—	—	—
	02/20/04	<0.50	<0.50	<0.50	34.8	<0.50	<0.50	—
	04/01/04	—	—	—	<10.0	—	—	—
	08/19/04	—	—	—	—	—	—	<50.0
	11/17/04	—	—	—	—	—	—	—
TW1	5/4/93 - Present Not Sampled.		—	—	—	—	—	—
	08/14/01	Well Destroyed						
TW2	5/4/93 - Present Not Sampled.		—	—	—	—	—	—
TW2	08/15/01	Well Destroyed						

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Well ID #	Sampling Date	EDB	1,2-DCA	TAME	TBA	ETBE	DIPE	Ethanol
		<———	———	ug/L	———	———	———>	

Notes:

SUBJ	=	Results of subjective evaluation.
NLPH	=	No liquid-phase hydrocarbons present in well.
TOC	=	Elevation of top of well casing; relative to mean sea level.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater surface; relative to mean sea level.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified) or 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified) or 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020 or 8021B.
EDB	=	1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-Dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
—	=	Not analyzed/not applicable.
<	=	Less than the indicated reporting limit shown by the laboratory.
<PQL	=	Less than the practical quantitation levels per Environmental Protection Agency (EPA) Federal Register.
<MDL	=	Less than the laboratory method detection limit.
ug/L	=	Micrograms per liter.
a	=	Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two.
b	=	Elevation of casing altered during construction.
c	=	MTBE confirmation analysis using EPA Method 8260B.
d	=	MTBE analyzed using EPA Method 8021B. MTBE results confirmed by GC/MS Method 8260.
e	=	Elevated reporting limit used; result is suspect.
f	=	Well inaccessible.
g	=	Data lost due to PDA malfunction.

TABLE 2
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 1 of 4)

Sample ID	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
			<.....mg/Kg.....>								
TP-1A	12/2/1986		—	0.35	—	<0.001	0.002	—	0.014	—	—
TP-TB	12/2/1986		—	110	—	2.3	1.1	—	22	—	—
TP-1C	12/2/1986		—	470	—	13	6.4	—	100	—	—
TP-1D	12/2/1986		—	360	—	6.1	0.73	—	110	—	—
TP-1E	12/2/1986		—	77	—	0.42	0.14	—	5.7	—	—
TP-1F	12/2/1986		—	69	—	0.49	0.12	—	5.3	—	—
TP-3A	12/2/1986		—	<0.050	—	<0.001	<0.001	—	<0.001	—	—
TP-2A	12/2/1986		—	8.4	—	0.031	0.19	—	1.4	—	—
S-4.5-D1	10/19/1994	4.5	<5.0	7	—	<0.0050	<0.0050	0.012	0.0088	—	—
S-5-D2	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-5-D3	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	0.0057	<0.0050	—	—
S-5-D4	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-5-D5	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-5-D6	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-10-WOT	10/19/1994	10	1,400	1,100	—	4.1	5.2	17	89	—	—
S-10-WOTNW	10/19/1994	10	5.2	<1,000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-10-WOTSW	10/19/1994	10	<5.0	<1,000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-9-HE	10/19/1994	9	<5.0	<1,000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-8.5-HW	10/19/1994	8.5	<5.0	<1,000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
1-A	5/1/1987	Composite	—	<1.0	—	<1.0	<1.0	—	<1.0	—	6
1-B	5/1/1987	Composite	—	<1.0	—	<1.0	<1.0	—	<1.0	—	6
2-ABCD	5/1/1987	Composite	—	124.3	—	<1.0	<1.0	—	10.8	—	8
3-AB	5/1/1987	Composite	—	427.5	—	<1.0	1.6	—	28.8	—	3.9
4B	6/1/1987	9	—	—	—	100	30	ND	20	—	ND
4C	6/1/1987	14	—	—	—	ND	ND	ND	ND	—	ND
5B	6/1/1987	9	—	—	—	ND	ND	ND	ND	—	ND
5C	6/1/1987	14	—	—	—	60	600	100	330	—	ND
6B	6/1/1987	9	—	—	—	ND	ND	ND	ND	—	ND
MW-1	5/1/1987	Composite	—	ND	—	ND	—	—	—	ND	—
MW-2	5/1/1987	Composite	—	124	—	ND	—	—	—	11	—
MW-3	5/1/1987	Composite	—	428	—	ND	—	—	—	29	—
MW-4	5/1/1987	9	—	ND	—	ND	—	—	—	ND	—
		14	—	ND	—	ND	—	—	—	ND	—
MW-5	5/1/1987	9	—	54	—	ND	—	—	—	ND	—
		13	—	ND	—	ND	—	—	—	ND	—
MW-6	5/1/1987	9	—	ND	—	ND	—	—	—	ND	—
MW-7	5/1/1987	9	—	ND	—	ND	—	—	—	ND	—
		14	—	20	—	ND	—	—	—	ND	—
MW-8	5/1/1987	14	—	ND	—	ND	—	—	—	ND	—
		19	—	ND	—	ND	—	—	—	ND	—
		25	—	ND	—	ND	—	—	—	ND	—

TABLE 2
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 2 of 4)

Sample ID	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
			<.....mg/Kg.....>								
MW-9	5/1/1987	11	—	ND	—	ND	—	—	—	ND	—
MW-10	5/1/1987	10	—	ND	—	ND	—	—	—	ND	—
		12	—	550	—	4	—	—	—	81	—
		15	—	ND	—	ND	—	—	—	ND	—
MW-11	5/1/1987	7	—	ND	—	ND	—	—	—	ND	—
		11	—	ND	—	ND	—	—	—	ND	—
MW-12b	5/1/1987	14	—	ND	—	ND	—	—	—	ND	—
MW-12a	5/1/1987	22	—	2	—	ND	—	—	—	ND	—
		25	—	ND	—	ND	—	—	—	ND	—
		27	—	ND	—	ND	—	—	—	ND	—
MW-13b	5/1/1987	7	—	ND	—	ND	—	—	—	ND	—
		14	—	240	—	ND	—	—	—	ND	—
		21	—	ND	—	ND	—	—	—	ND	—
MW13a	6/1/1987	23	—	ND	—	ND	—	—	—	ND	—
MW14a		21	—	ND	—	ND	—	—	—	ND	—
		26	—	ND	—	ND	—	—	—	ND	—
		31	—	ND	—	ND	—	—	—	ND	—
MW-15a	5/1/1987	14	—	ND	—	ND	—	—	—	ND	—
		17	—	ND	—	ND	—	—	—	ND	—
MW-16a	5/1/1987	11	—	ND	—	ND	—	—	—	ND	—
		15	—	ND	—	ND	—	—	—	ND	—
MW17a	5/1/1987	9	—	ND	—	ND	—	—	—	ND	—
		18	—	ND	—	ND	—	—	—	ND	—
B-1	12/4/1995	4-4.5	4	—	—	0.021	0.075	0.016	0.054	—	—
	12/4/1995	10-10.5	11	—	—	<0.005	<0.0054	0.019	<0.02	—	—
	12/4/1995	11.5-12	2.9	—	—	<0.005	<0.005	0.0053	<0.02	—	—
	12/4/1995	13-13.5	18	—	—	<0.5	<0.5	1.5	2.5	—	—
	12/4/1995	17.5-18	4.5	—	—	<0.005	<0.005	<0.005	<0.02	—	—
B-2	12/6/1995	11-11.5	—	600	—	<3	<3	4.5	7	—	—
	12/6/1995	12.5-13	—	37	—	<0.05	0.089	0.88	1.2	—	—
	12/6/1995	14-14.5	—	83	—	<0.3	<0.3	1.2	2.8	—	—
	12/6/1995	15.5-16	—	<1	—	0.013	<0.005	0.013	0.013	—	—
	12/6/1995	17-17.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-3	12/5/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	12.5-13	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	13.5-14	—	790	—	<5	<5	9.9	34	—	—
	12/5/1995	16.5-17	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—

TABLE 2
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 3 of 4)

Sample ID	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
			<.....mg/Kg.....>								
B-4	12/5/1995	5.5-6	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	10-10.5	—	3.1	—	<0.005	<0.005	0.069	0.018	—	—
	12/5/1995	11.5-12	—	1.9	—	<0.005	<0.005	<0.005	0.093	—	—
	12/5/1995	13-13.5	—	1,800	—	13	6.5	16	16	—	—
	12/5/1995	14.5-15.0	—	230	—	<3	<3	3.6	12	—	—
	12/5/1995	17.5-18	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-5	12/5/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	12-12.5	—	13	—	<0.3	<0.3	<0.3	<0.3	—	—
	12/5/1995	13.5-14	—	6.3	—	0.049	0.02	0.036	0.019	—	—
	12/5/1995	16.5-17	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
				<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-6	12/6/1995	5.5-6	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	10-10.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	11.5-12	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	14.5-15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-7	12/5/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	9-9.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/5/1995	12-12.5	—	2	—	0.052	0.0051	0.14	0.28	—	—
	12/5/1995	15-15.5	—	1.6	—	<0.005	<0.005	0.04	0.059	—	—
	12/5/1995	18-18.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-8	12/4/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/4/1995	10-10.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/4/1995	11.5-12	—	430	—	<5	<5	<5	11	—	—
	12/4/1995	14.5-15	—	21000	—	150	820	310	1300	—	—
	12/4/1995	17.5-18	—	3400	—	10	72	55	150	—	—
	12/4/1995	19-19.5	—	2	—	0.026	0.089	0.029	0.14	—	—
	12/4/1995	22-22.5	—	1.5	—	0.011	0.021	0.012	0.056	—	—
	12/4/1995	23.5-24	—	160	—	0.99	6.3	2.7	12	—	—
B-9	12/6/1995	4-4.5	—	1.3	—	0.0068	0.014	0.0085	0.035	—	—
	12/6/1995	10-10.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	11.5-12	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	14.5-15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-10	12/6/1995	5-5.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	11-11.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	12.5-13	—	1600	—	2.5	12	29	110	—	—
	12/6/1995	14-14.5	—	<1	—	0.054	0.0058	0.014	0.026	—	—
	12/6/1995	15.5-16	—	<1	—	0.0062	<0.005	0.011	0.031	—	—

TABLE 2
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 4 of 4)

Sample ID	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
			<.....mg/Kg.....>								
B-11	12/6/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	12/6/1995	15-15.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW18	10/1/1996	5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/1/1996	10	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/1/1996	15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/1/1996	20	—	0.92	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/1/1996	25	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/1/1996	30	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/1/1996	35	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW19	10/2/1996	5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/2/1996	10	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/2/1996	15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
	10/2/1996	20	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
S-10-MW20A	8/16/2001	10	<2	<1	0.059	<0.001	<0.001	<0.001	<0.001	—	NA
S-20-MW20A	8/16/2001	20	<2	<1	0.44	<0.001	<0.001	<0.001	<0.001	—	NA
S-6-MW20B	8/16/2001	6	<2	<1	<0.001	<0.001	<0.001	<0.001	<0.001	—	NA
S-10-MW20B	8/16/2001	10	<2	<1	0.051	<0.001	<0.001	<0.001	0.0037	—	NA
STOCKPILE											
SP-1-(1-4) Comp.	8/16/2001	Composite	8.5	<10	0.017	<0.001	<0.001	<0.001	0.067	—	3.15

Notes:

mg/Kg	=	Milligrams per kilogram.
<	=	Analyte not detected at or above the stated laboratory method detection limits.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
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.
Total Lead	=	Total lead analyzed using EPA Method 6010b.
—	=	Not Analyzed.

TABLE 3
SUMMARY OF RESIDUAL COCs MASS CALCULATIONS
Former Exxon Service Station 7-0249
6301 Commerce Blvd.
Rohnert Park, California
(Page 1 of 1)

	COC	AREA I	AREA II	AREA III	AREA IV	AREA V	AREA VI	TOTAL
VADOSE ZONE	TPHd	0	0	0	1.12	58.65	0	59.8
	TPHg	78	2.13	63	80	46	51	321
	Benzene	0.45	0.00	0.84	0.02	0.17	0.12	1.61
	Toluene	0.50	0.00	0.37	0.08	0.22	0.07	1.23
	Ethylbenzene	0.50	0.01	0.51	0.00	0.71	0.00	1.73
	Xylenes	2.17	0.00	9.08	1.35	3.71	0.08	16.40
SATURATED ZONE	TPHd	0	0	0	5.06	0	0	5.06
	TPHg	7730	0	586	0	0	830	9146
	Benzene	48.32	0	4.08	0.06	0	6.10	58.60
	Toluene	307.27	0	2.27	0.06	0	9.98	320
	Ethylbenzene	134	0	5.91	0.34	0	33	173
	Xylenes	531	0	8.64	0.56	0	111	651

Notes:

COC	= Chemical of Concern
TPHd	= Total petroleum hydrocarbons as diesel
TPHg	= Total petroleum hydrocarbons as gasoline
BTEX	= Benzene, toluene, ethylbenzene, and total xylenes
Mg	= Micrograms
lbs	= pounds

TABLE 4
SUMMARY OF MASS CALCULATION OF DISSOLVED COCs
Former Exxon Service Station 7-0249
6301 Commerce Blvd.
Rohnert Park, California
(Page 1 of 1)

COC	Approximate Plume Area (ft^2)	Estimated Volume of Impacted Groundwater (ft^3)	COC Mass	
			Mg	lbs
Upper Water Bearing Zone				
TPHg	36100	126350	346998	0.765
MTBE	72000	252000	163747	0.361
Benzene	17500	61250	12247	0.027
Toluene	6750	23625	1361	0.003
Ethylbenzene	16250	56875	9525	0.021
Xylenes	10350	36225	4082	0.009
Lower Water Bearing Zone				
TPHg	33800	153790	34019	0.075
MTBE	44825	203954	90265	0.199
Benzene	0	0	0	0
Toluene	0	0	0	0
Ethylbenzene	9600	43680	2722	0.006
Xylenes	0	0	0	0

Notes:

COC	= Chemical of Concern.
TPHd	= Total petroleum hydrocarbons as diesel.
TPHg	= Total petroleum hydrocarbons as gasoline.
BTEX	= Benzene, toluene, ethylbenzene, and total xylenes.
MTBE	= Methyl tertiary butyl ether.
Mg	= Micrograms.
lbs	= Pounds.

TABLE 5

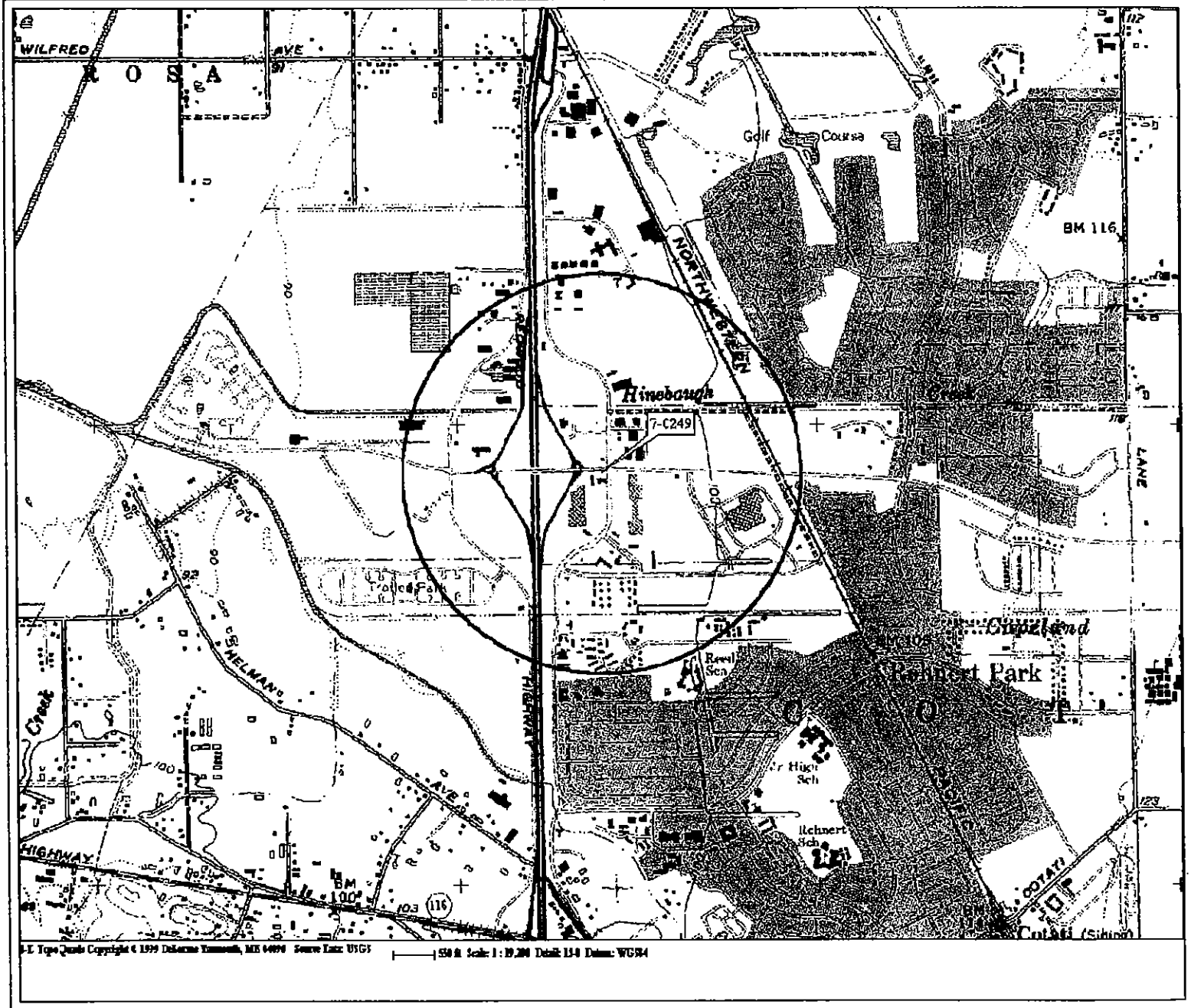
Comparison of Representative Concentrations to Groundwater Cleanup Objectives

Former Exxon Service Station 7-0249
6301 Commerce Blvd.
Rohnert Park, California
(Page 1 of 1)

COC	Representative Concentration	Cleanup Objective	Primary MCL
	<.....ug/L		.....>
TPHg	3570	—	—
TPHd	780	—	—
B	52.7	1	1
T	6.8	—	150
E	117	680	300
X	37.4	1750	1750
MTBE	234	—	13

Notes:

Representative Concentration	=	Maximum concentration detected in groundwater during the last four monitoring and sampling events.
Cleanup Objective	=	Water quality objectives for groundwater from Table 3-2 of the Regional Water Quality Control Board Basin Plan.
Primary MCL	=	California Primary MCL.
ug/L	=	Micrograms per liter.
TPHd	=	Total petroleum hydrocarbons as diesel.
TPHg	=	Total petroleum hydrocarbons as gasoline.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes.
MTBE	=	Methyl tertiary butyl ether.
—	=	Not Applicable.



FN: 2002MAP

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 .5 1 mile

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

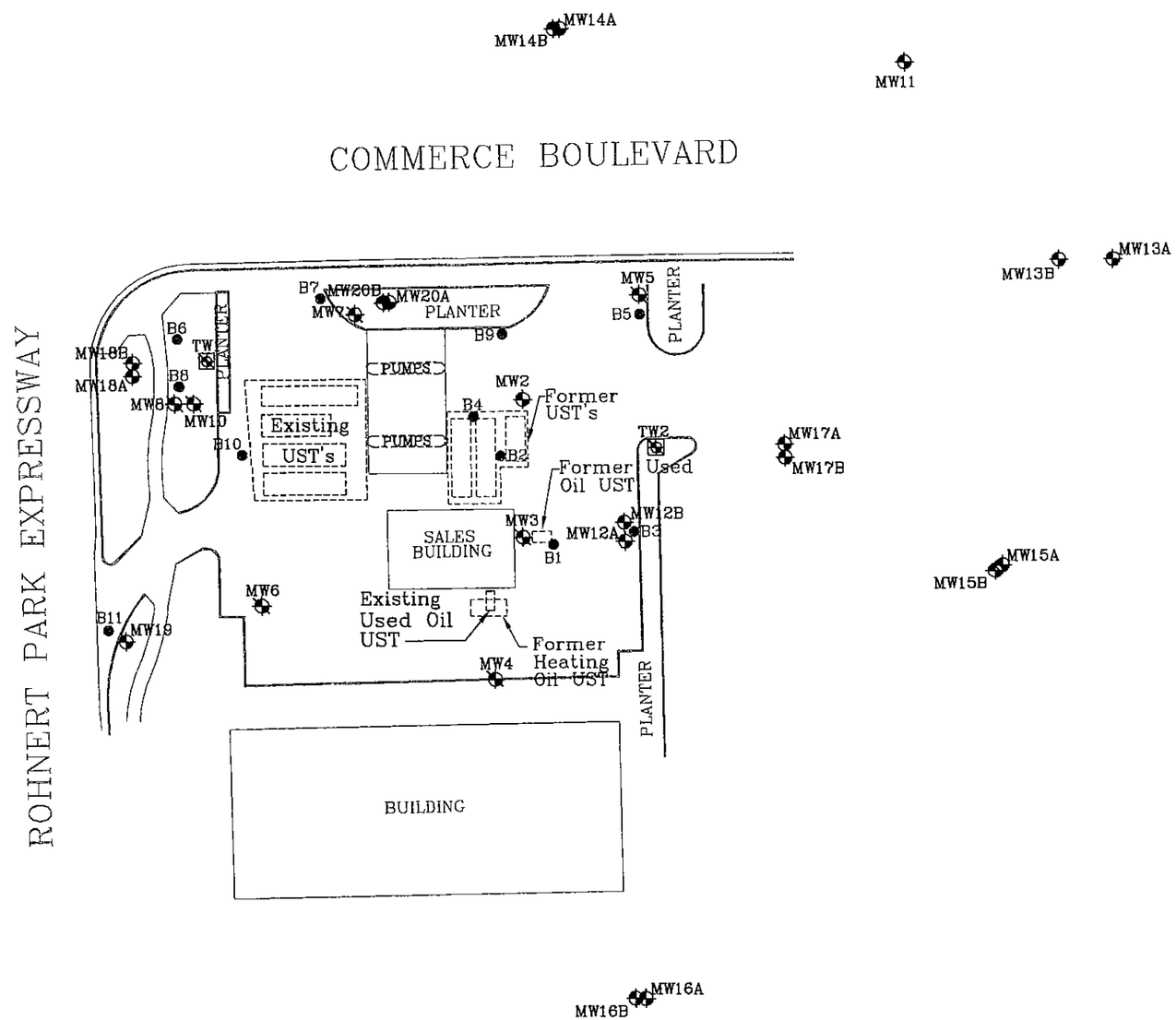
ERI ENVIRONMENTAL RESOLUTIONS, INC.

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 1



APPROXIMATE SCALE

0 50 100 Feet

FN 2002003a

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

EXPLANATION

MW20B Groundwater Monitoring Well

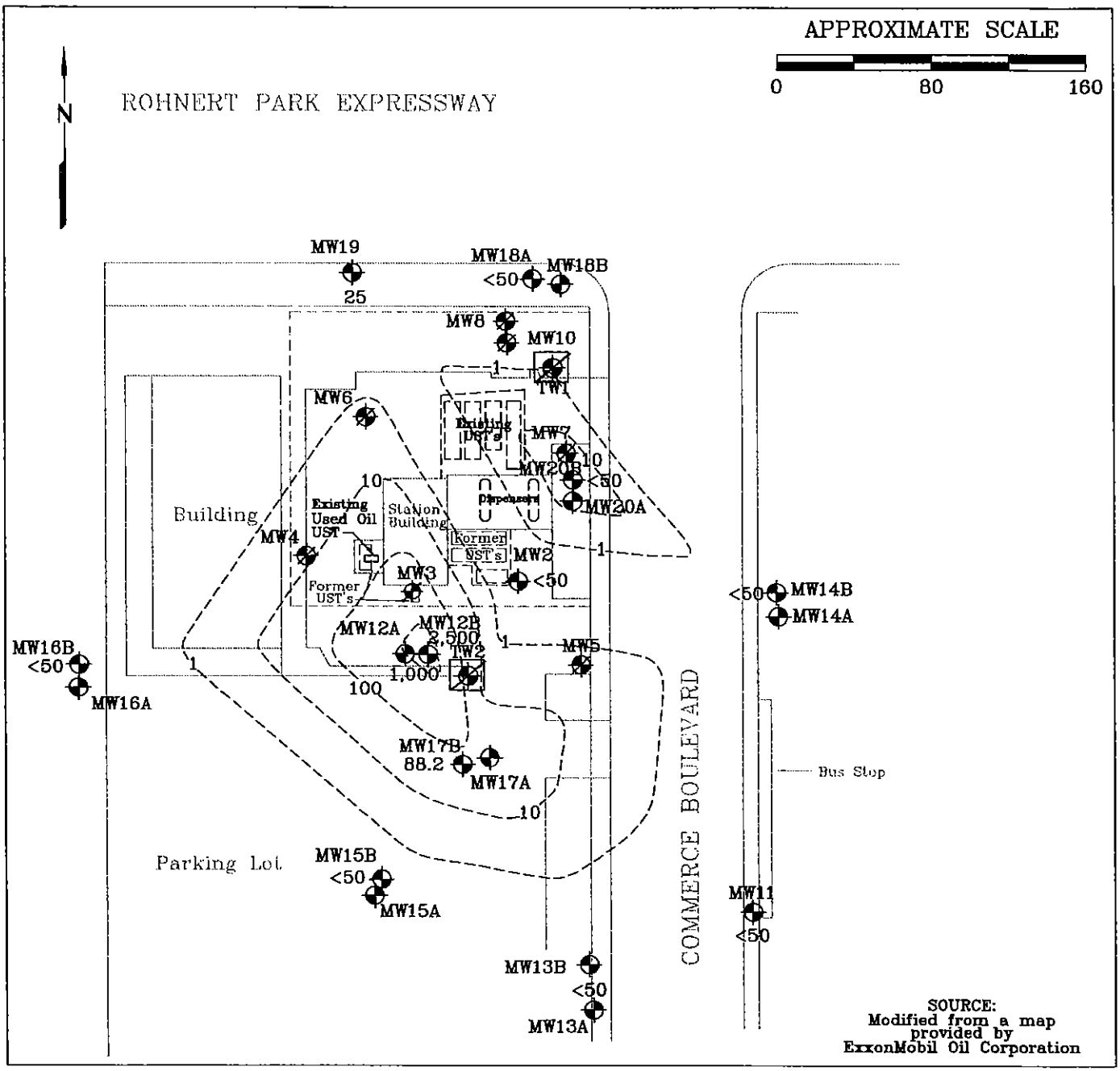
MW10 Destroyed Groundwater Monitoring Well

TW2 Destroyed Groundwater Recovery Well

B11 Soil Boring

PROJECT NO. 2002

PLATE 2



FN 20020003_QM

EXPLANATION

MW20B
Groundwater Monitoring Well

2,500 TPHg concentration (ug/L)

1,000---- Line of Equal TPHg Concentration (ug/L)

TW2
Destroyed Groundwater Recovery Well

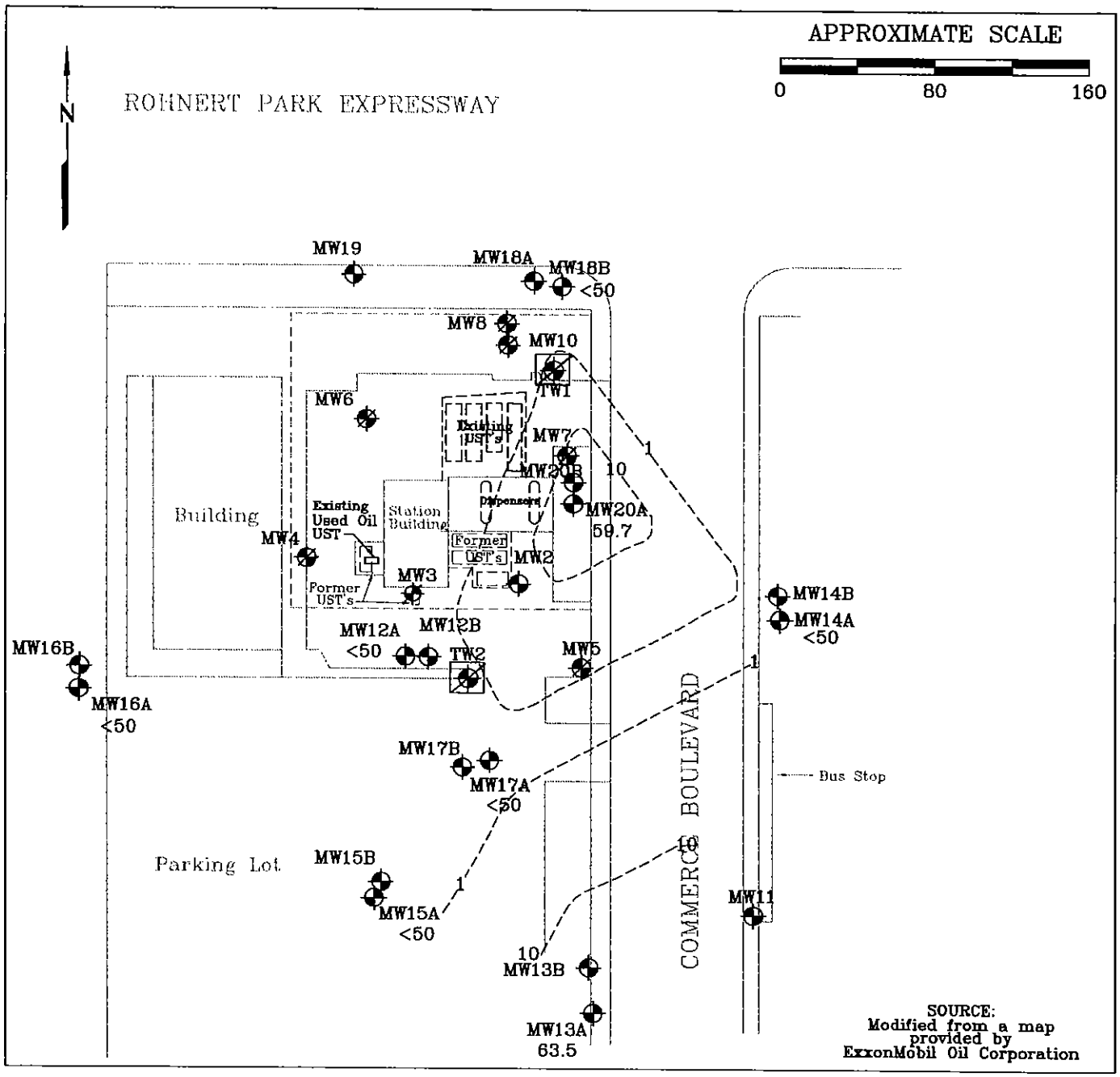
MW10
Destroyed Groundwater Monitoring Well

ERI ENVIRONMENTAL RESOLUTIONS, INC.

TPHg ISOCONCENTRATION MAP
UPPER WATER BEARING ZONE-NOVEMBER 17, 2004
FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 3



FN 20020003_QM

EXPLANATION

MW20A
Groundwater Monitoring Well

59.7 TPHg concentration (ug/L)

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

TW2
Destroyed Groundwater Recovery Well

MW10
Destroyed Groundwater Monitoring Well

ERI ENVIRONMENTAL RESOLUTIONS, INC.

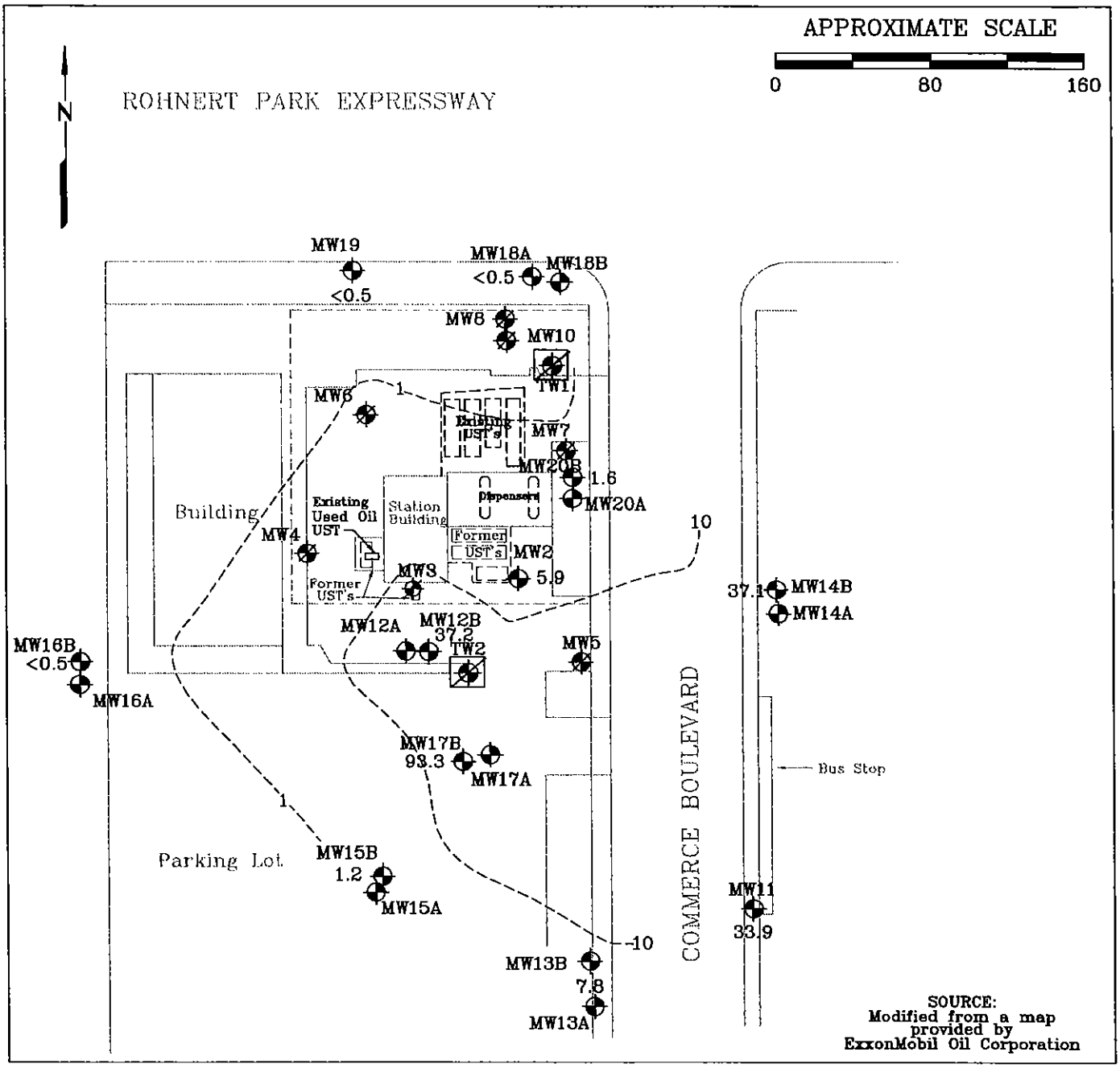
TPHg ISOCONCENTRATION MAP

LOWER WATER BEARING ZONE-NOVEMBER 17, 2004

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 4



FN 20020003_QM

EXPLANATION

MW20B — Groundwater Monitoring Well

1.6 — MTBE concentration (ug/L)

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

TW2 — Destroyed Groundwater Recovery Well

MW10 — Destroyed Groundwater Monitoring Well

ERI ENVIRONMENTAL RESOLUTIONS, INC.

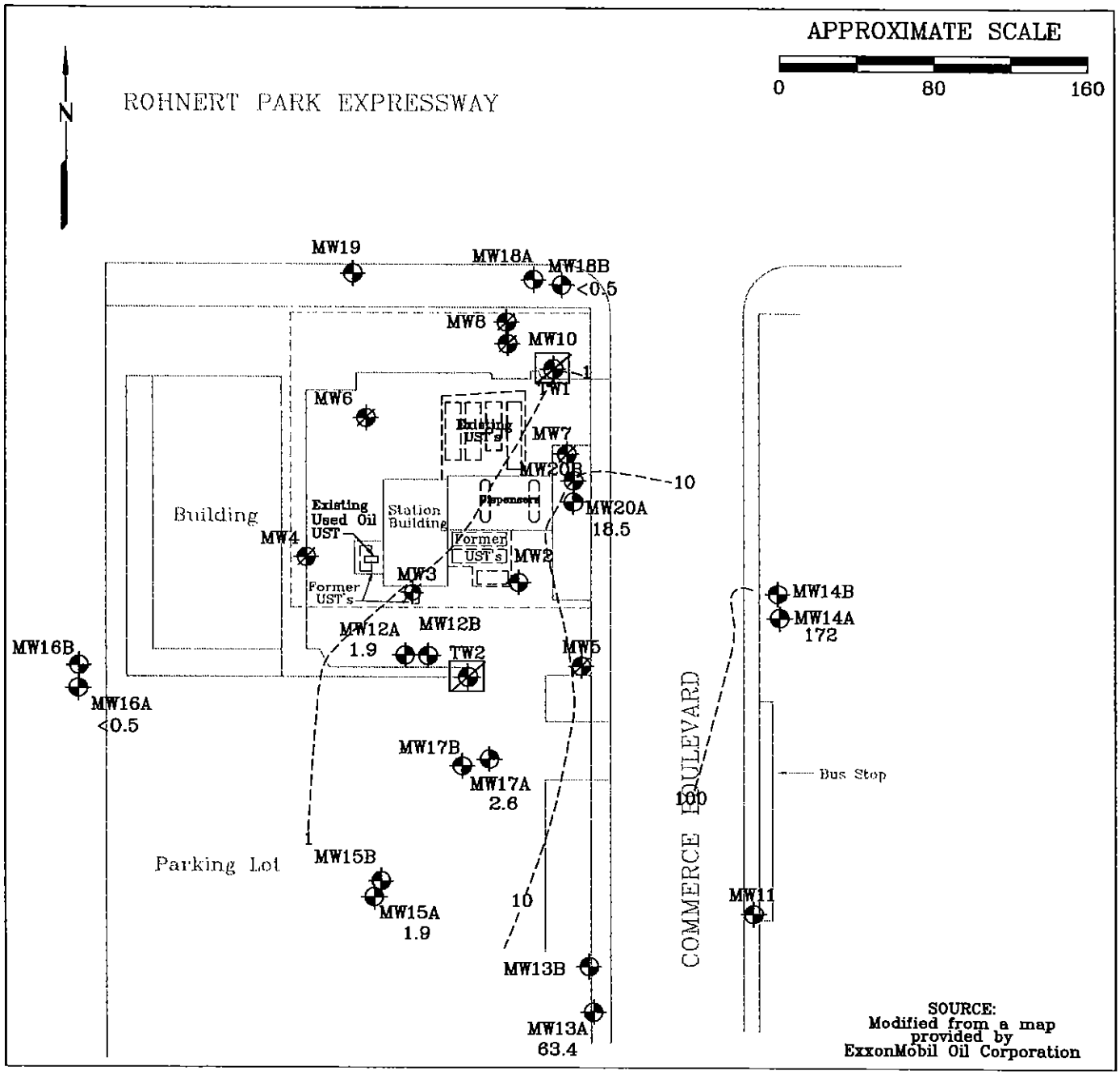
MTBE ISOCONCENTRATION MAP

UPPER WATER BEARING ZONE-NOVEMBER 17, 2004

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 5



FN 20020003_QM

EXPLANATION

MW20A
Groundwater Monitoring Well

18.5 MTBE concentration (ug/L)

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

TW2
Destroyed Groundwater Recovery Well

MW10
Destroyed Groundwater Monitoring Well

ERI ENVIRONMENTAL RESOLUTIONS, INC.

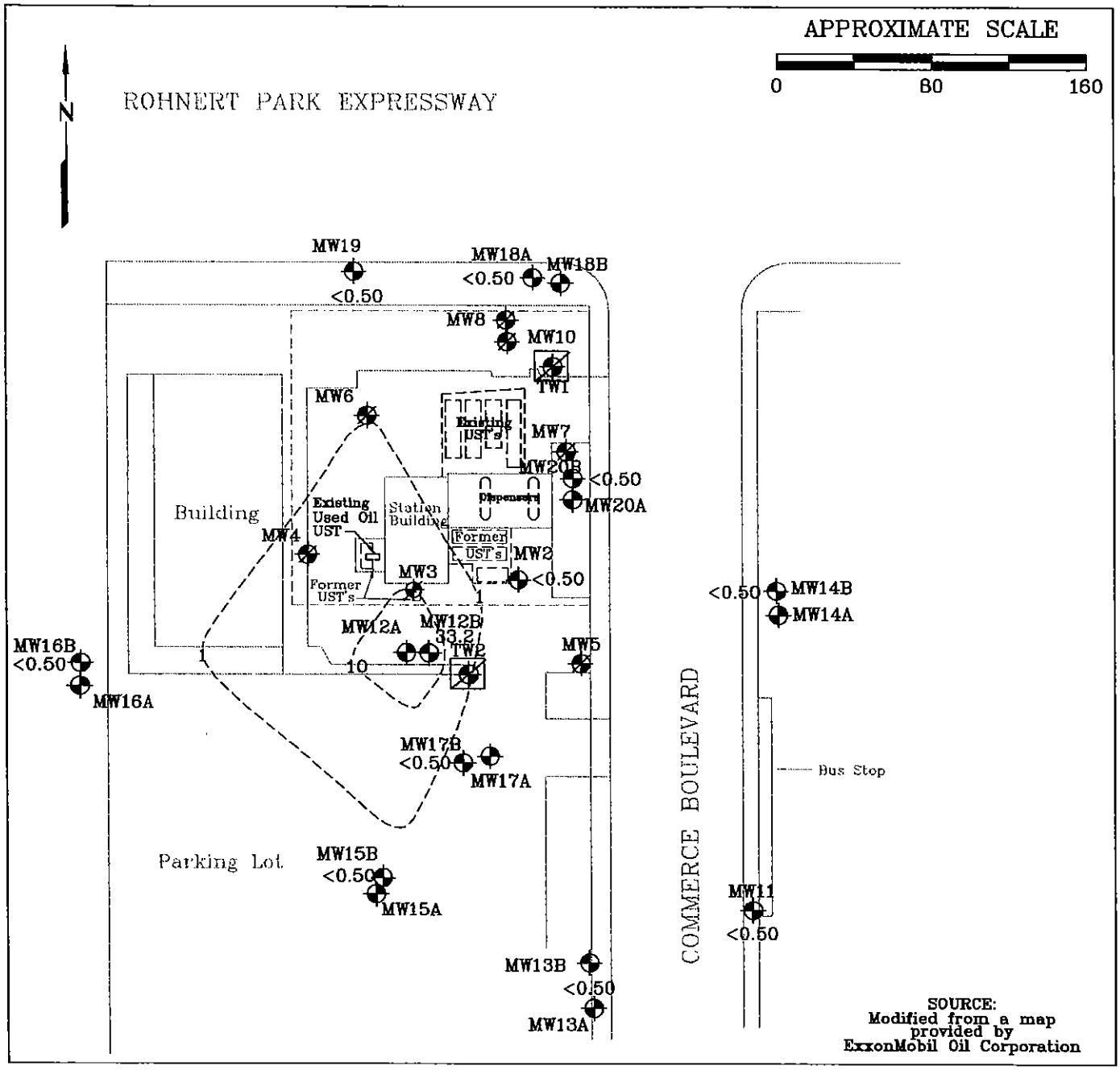
MTBE ISOCONCENTRATION MAP

LOWER WATER BEARING ZONE-NOVEMBER 17, 2004

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 6



FN 20020003_QM

EXPLANATION

MW20B — Groundwater Monitoring Well

<0.50 Benzene concentration (ug/L)

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

TW2 — Destroyed Groundwater Recovery Well

MW10 — Destroyed Groundwater Monitoring Well

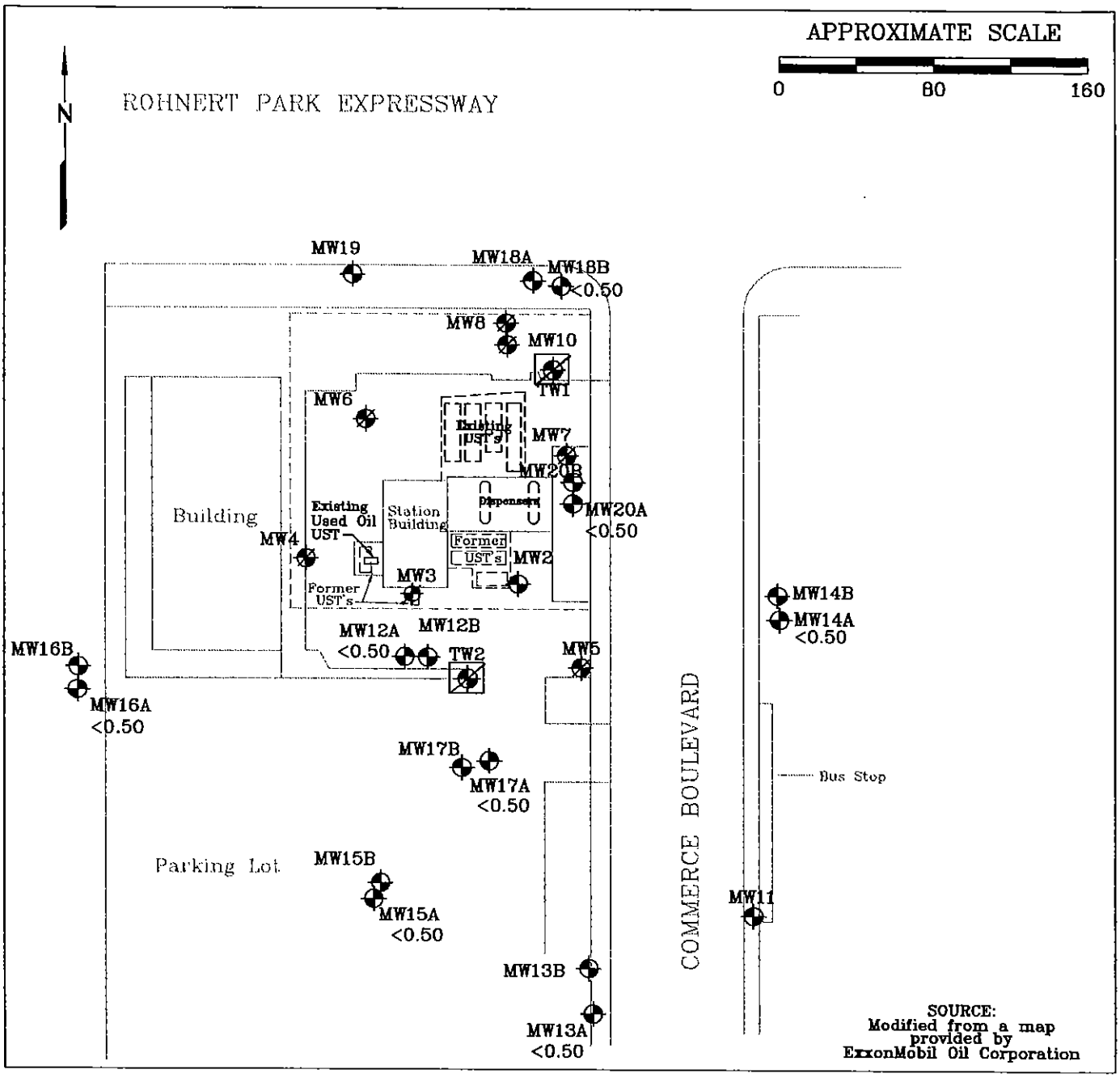
ERI ENVIRONMENTAL RESOLUTIONS, INC.

BENZENE ISOCONCENTRATION MAP
UPPER WATER BEARING ZONE-NOVEMBER 17, 2004

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 7



FN 20020003_QM

EXPLANATION

MW20A
Groundwater Monitoring Well

<0.50 Benzene concentration (ug/L)

TW2
Destroyed Groundwater Recovery Well

MW10
Destroyed Groundwater Monitoring Well

ERI ENVIRONMENTAL RESOLUTIONS, INC.

BENZENE ISOCONCENTRATION MAP
LOWER WATER BEARING ZONE-NOBEMBER 17, 2004

FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 8

ATTACHMENT A

REGULATORY CORRESPONDENCE

COUNTY of SONOMA
DEPARTMENT OF HEALTH SERVICES

Mark A. Kostielney - Director

Sharon Aguilera - Assistant Director

Environmental Health Division

Jonathan J. Krug - Director

October 20, 2004

Ms. Jennifer Sedlachek
Exxon Mobil Corp.
4096 Piedmont Avenue, #194
Oakland, CA 94611-5221

RECEIVED
OCT 21 2004
BY:

Re: Review of Corrective Action Plan
6301 Commerce Blvd., Rohnert Park
Leaking Underground Storage Tank Site
SCDHS-EHD Site #00001439; NCRWQCB Site #1TSO122; CU Fund Claim #6135

Dear Ms. Sedlachek:

On September 17, 2004, this Department received the referenced Corrective Action Plan (CAP) report from Environmental Resolutions, Inc. (ERI) dated September 15, 2004. Thank you very much for this submittal. I have reviewed the report and find that additional information is required in order to comply with the content of a CAP as presented in Title 23 and required in the directive letter. The following items must be addressed:

- Physical and chemical characteristics of contaminants.
- Toxicity of contaminants.
- Persistence of contaminants in soil and groundwater.
- Migration potential in soil and groundwater.
- Proximity and quality of groundwater and nearby surface water.
- Current and potential beneficial use of surface and groundwater.
- Potential effects of residual contamination on ground and surface waters.
- This Department requires that an estimate of contaminant mass in soil and groundwater be provided.
- Cleanup objectives must be clearly stated in terms of actual concentrations and must conform with the Regional Water Quality Control Board Basin Plan, where appropriate.
- An estimated time to achieve cleanup objectives (and complete the remediation) must be provided for each of the alternatives evaluated.

- The data presented militates against the use of Monitored Natural Attenuation (MNA) as a viable remedial method when considering time needed to meet cleanup objectives. Therefore, additional potentially viable remedial alternatives must be considered.

A revision to the CAP addressing these issues is now required and is due on **December 17, 2004.**

State Water Resources Control Board Cleanup Fund has suspended the processing of cost pre-approvals; however, the site must be in compliance with this Department's directives to be eligible for funding.

Please contact me at (707) 565-6573 or by e-mail at dradford@sonoma-county.org if you have any questions. My office hours are 7:30 a.m. to 4 p.m., Monday through Thursday.

Sincerely,

Dale Radford

Dale Radford, P.E.
Civil Engineer
Leaking Underground Storage Tank
Local Oversight Program

DR

c: Mr. Luis Rivera, North Coast Regional Water Quality Control Board
Mr. David Charter, SWRCB Cleanup Fund
Mr. John Bobbitt, Environmental Resolutions, Inc.
Mr. Jason L. Pahlmeyer, P.O. Box 2410, Napa, Ca 94558-0241

Rob A. Saur

From: Rob A. Saur

Sent: Monday, December 20, 2004 10:44 AM

To: 'dradford@sonoma-county.org'

Subject: Former Exxon Service Station 7-0249, 6301 Commerce Blvd., Rohnert Park

Dale,
In response to the County of Sonoma, Department of Health Services (the County) letter dated October 20, 2004, ERI is preparing a Revision to the Corrective Action Plan for the subject site. Based on our December 20, 2004 telephone conversation, it is my understanding that the County has authorized an extension for the submittal of the Revision to Corrective Action Plan to January 21, 2005.

Please contact me if you have any questions.

Thanks,

Robert A. Saur
Project Manager

Environmental Resolutions, Inc
6301 North McDowell Boulevard
Petaluma, California 94954
Phone: 707-766-2019
Fax:707-789-0414
rsaur@eri-us.com

ATTACHMENT B

CHEMICAL PROPERTIES

CHEMICAL DATA FOR SELECTED COCs

Physical Property Data

Constituent	CAS Number	type	Molecular Weight (g/mole) MW	ref	Diffusion Coefficients In air (cm2/s) Dair	ref	In water (cm2/s) Dwat	ref	log (Koc) or log(Kd) (@ 20 - 25 C) log(L/kg)	partition	ref	Henry's Law Constant (@ 20 - 25 C) (atm-m3) mol	(unitless)	ref	Vapor Pressure (@ 20 - 25 C) (mm Hg)	ref	Solubility (@ 20 - 25 C) (mg/L)	ref	acid pKa	base pKb	ref
Benzene*	71-43-2	A	78.1	PS	8.80E-02	R2	9.80E-06	R2	1.79	Koc	R2	5.53E-03	2.28E-01	R2	9.52E+01	PS	1.80E+03	R2	-	-	-
Ethylbenzene*	100-41-4	A	106.2	PS	7.50E-02	R2	7.80E-06	R2	2.30	Koc	R2	7.83E-03	3.23E-01	R2	1.00E+01	PS	1.69E+02	R2	-	-	-
Methyl t-Butyl ether*	1634-04-4	A	88.146	5	8.10E-02	R2	9.41E-05	R2	1.07	Koc	R2	5.84E-04	2.41E-02	R2	2.49E+02	-	4.80E+04	R2	-	-	-
Toluene*	108-88-3	A	92.4	5	8.70E-02	R2	8.60E-06	R2	2.15	Koc	R2	6.57E-03	2.71E-01	R2	3.00E+01	4	5.26E+02	R2	-	-	-
Xylene (mixed isomers)*	1330-20-7	A	106.2	5	7.00E-02	R2	7.80E-06	R2	2.30	Koc	R2	7.25E-03	2.99E-01	R2	7.00E+00	4	1.61E+02	R2	-	-	-
TPH - Aliph >C05-C06	0-00-0	T	81	T	1.00E-01	T	1.00E-05	T	2.90	Koc	T	7.88E-01	3.25E+01	T	2.66E+02	-	3.60E+01	T	-	-	-
TPH - Aliph >C06-C08	0-00-0	T	100	T	1.00E-01	T	1.00E-05	T	3.60	Koc	T	1.17E+00	4.81E+01	T	4.79E+01	-	5.40E+00	T	-	-	-
TPH - Aliph >C08-C10	0-00-0	T	130	T	1.00E-01	T	1.00E-05	T	4.50	Koc	T	1.90E+00	7.85E+01	T	4.79E+00	-	4.30E-01	T	-	-	-
TPH - Aliph >C10-C12	0-00-0	T	160	T	1.00E-01	T	1.00E-05	T	5.40	Koc	T	2.96E+00	1.22E+02	T	4.79E-01	-	3.40E-02	T	-	-	-
TPH - Aliph >C12-C16	0-00-0	T	200	T	1.00E-01	T	1.00E-05	T	6.70	Koc	T	1.26E+01	5.21E+02	T	3.65E-02	-	7.60E-04	T	-	-	-
TPH - Aliph >C16-C21	0-00-0	T	270	T	1.00E-01	T	1.00E-05	T	8.80	Koc	T	1.19E+02	4.90E+03	T	8.36E-04	-	2.50E-06	T	-	-	-
TPH - Aliph >C21-C34	0-00-0	T	400	-	1.00E-01	-	1.00E-05	-	8.80	Koc	-	1.76E+02	7.26E+03	-	8.36E-04	-	2.50E-06	-	-	-	-

* = Chemical with user-specified data

Site Name: Former Exxon Service Station 7-0249

Site Location: 6301 Commerce Blvd. Rohnert Park, CA

Completed By:

Date Completed: 0-Jan-00

Job ID:

CHEMICAL DATA FOR SELECTED COCs

Toxicity Data

Constituent	Reference Dose (mg/kg/day) Oral RfD_oral	ref	Reference Dose (mg/kg/day) Dermal RfD_dermal	ref	Reference Conc. (mg/m3) Inhalation RfC_Inhal	ref	Slope Factors 1/(mg/kg/day) Oral SF_oral	ref	Slope Factors 1/(mg/kg/day) Dermal SF_dermal	ref	Unit Risk Factor 1/(µg/m3) Inhalation URF_Inhal	ref	EPA Weight of Evidence	Is Constituent Carcinogenic ?
Benzene*	3.00E-03	R2	-	-	5.95E-03	R	1.00E-01	R2	2.99E-02	TX	8.29E-06	PS	A	TRUE
Ethylbenzene*	1.00E-01	R2	9.70E-02	0.1	1.00E+00	PS	-	-	-	-	-	-	D	FALSE
Methyl t-Butyl ether*	1.00E-02	R2	8.00E-03	0.01	3.00E+00	R	1.80E-03	R2	-	-	-	-	A	TRUE
Toluene*	2.00E-01	R2	1.60E-01	0.16	4.00E-01	-	-	-	-	-	-	-	D	FALSE
Xylene (mixed isomers)*	2.00E+00	R2	1.84E+00	1.84	7.00E+00	A	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C05-C06	5.00E+00	T	-	-	1.84E+01	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C06-C08	5.00E+00	T	-	-	1.84E+01	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C08-C10	1.00E-01	T	-	-	1.00E+00	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C10-C12	1.00E-01	T	-	-	1.00E+00	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C12-C16	1.00E-01	T	-	-	1.00E+00	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C16-C21	2.00E+00	T	-	-	-	T	-	-	-	-	-	-	D	FALSE
TPH - Aliph >C21-C34	2.00E+00	T	-	-	-	T	-	-	-	-	-	-	D	FALSE

* = Chemical with user-specified

Site Name: Former Exxon Servi

Site Location: 6301 Commerc

Miscellaneous Chemical Data

Constituent	Maximum Contaminant Level MCL (mg/L)	ref	Time-Weighted Average Workplace Criteria TWA (mg/m3)	ref	Aquatic Life Prot. Criteria AQL (mg/L)	ref	Biocon-centration Factor (L-wat/kg-fish)
Benzene*	1.00E-03	-	3.25E+00	-	4.60E-02	R2	12.6
Ethylbenzene*	7.00E-01	-	4.35E+02	-	2.90E-01	R2	1
Methyl t-Butyl ether*	5.00E-03	-	6.00E+01	NIOSH	8.00E+00	R2	1
Toluene*	1.50E-01	-	1.47E+02	ACGIH	1.30E-01	R2	70
Xylene (mixed isomers)*	1.75E+00	-	4.34E+02	ACGIH	1.30E-02	R2	1
TPH - Aliph >C05-C06	-	-	-	-	-	-	1
TPH - Aliph >C06-C08	-	-	-	-	-	-	1
TPH - Aliph >C08-C10	-	-	-	-	-	-	1
TPH - Aliph >C10-C12	-	-	-	-	-	-	1
TPH - Aliph >C12-C16	-	-	-	-	-	-	1
TPH - Aliph >C16-C21	-	-	-	-	-	-	1
TPH - Aliph >C21-C34	-	-	-	-	-	-	1

* = Chemical with user-specified

Site Name: Former Exxon Servi

Site Location: 6301 Commerc

CHEMICAL DATA FOR SELECTED COCs

Miscellaneous Chemical Data

Constituent	Dermal Relative Absorp. Factor (unitless)	Water Dermal Permeability Data: Dermal Permeability Coeff. (cm/hr)	Lag time for Dermal Exposure (hr)	Critical Exposure Time (hr)	Relative Contr of Derm Perm Coeff (unitless)	Water/Skin Derm Adsorp Factor (cm/event)	ref	Detection Limits: Groundwater (mg/L)	ref	Soil (mg/kg)	ref	Half Life (First-Order Decay) (days): Saturated	Unsaturated	ref
Benzene*	0.5	0.021	0.26	0.63	0.013	7.3E-2	D	0.0005	S	0.5	S	1440	1440	E1
Ethylbenzene*	0.5	0.074	0.39	1.3	0.14	2.7E-1	D	0.0005	S	0.5	S	228	228	H
Methyl t-Butyl ether*	0.5	-	-	-	-	-	-	0.0005	-	0.5	L1	1440	1440	E1
Toluene*	0.5	0.045	0.32	0.77	0.054	1.6E-1	D	0.0005	S	0.5	S	28	28	H
Xylene (mixed isomers)*	0.5	0.08	0.39	1.4	0.16	2.9E-1	D	0.0005	S	0.5	S	360	360	H
TPH - Aliph >C05-C06	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C06-C08	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C08-C10	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C10-C12	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C12-C16	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C16-C21	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH - Aliph >C21-C34	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-

* = Chemical with user-specified

Site Name: Former Exxon Servi

Site Location: 6301 Commerc

Site Name: Former Exxon Service Station 7-0249 Job ID:
Location: 6301 Commerce Blvd. Rohnert Park, CA Date: 0-Jan-00
Compl. By:

Commands and Options

Return | Print Sheet | Paste Default Values | *Help*

Constituent Half-Life Values

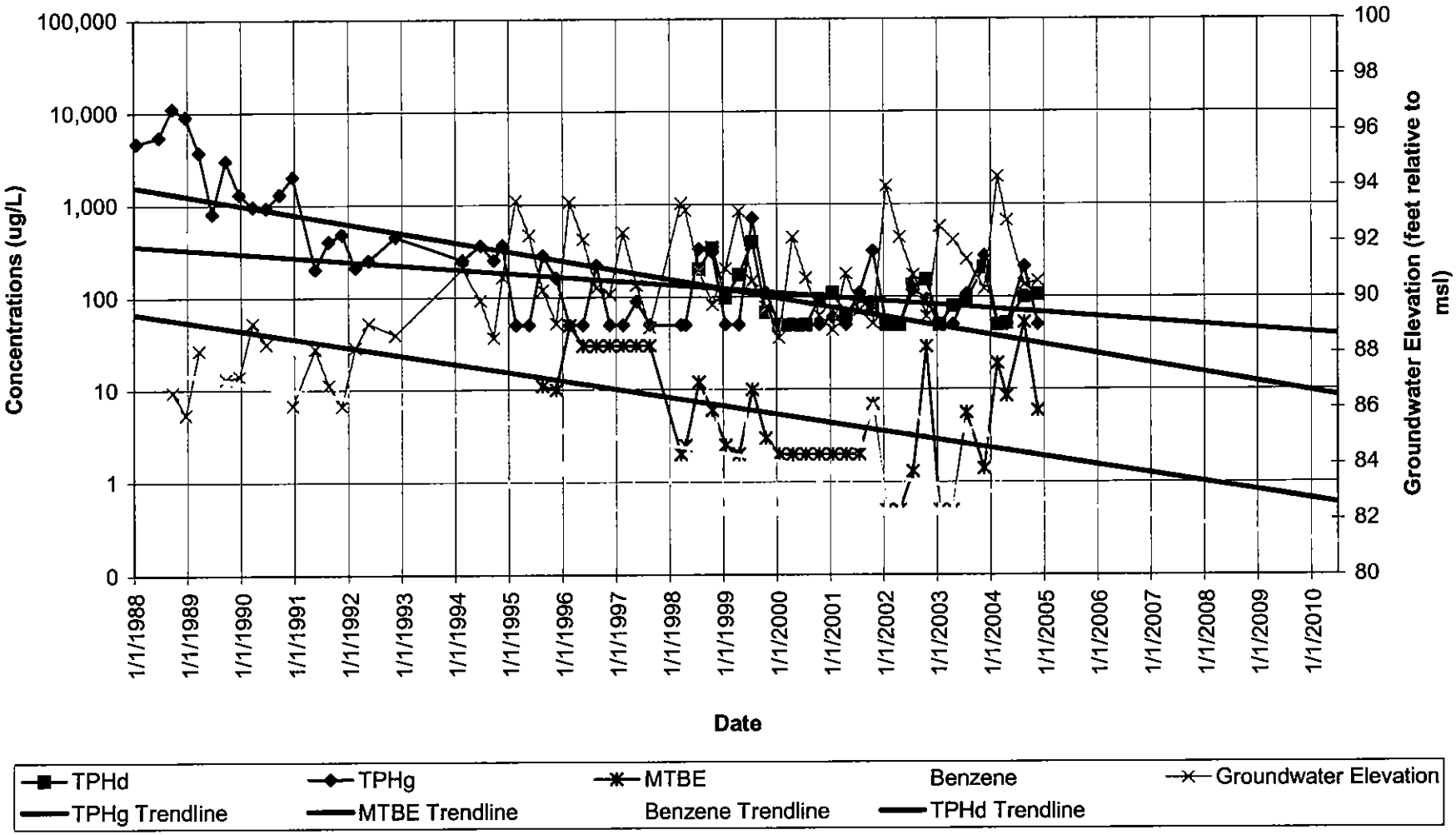
Constituent	Saturated Zone Half-Life (day)	Saturated Zone First-Order Decay Coeffecient (1/day)	Unsaturated Zone Half-Life (day)	Unsaturated Zone First-Order Decay Coeffecient (1/day)
Benzene*	1.4E+3	4.8E-4	1.4E+3	4.8E-4
Ethylbenzene*	2.3E+2	3.0E-3	2.3E+2	3.0E-3
Methyl t-Butyl ether*	1.4E+3	4.8E-4	1.4E+3	4.8E-4
Toluene*	2.8E+1	2.5E-2	2.8E+1	2.5E-2
Xylene (mixed isomers)*	3.6E+2	1.9E-3	3.6E+2	1.9E-3
TPH - Aliph >C05-C06	7.2E+2	9.6E-4	7.2E+2	0.0E+0
TPH - Aliph >C06-C08	7.2E+2	0.0E+0	7.2E+2	0.0E+0
TPH - Aliph >C08-C10	7.2E+2	0.0E+0	7.2E+2	0.0E+0
TPH - Aliph >C10-C12	7.2E+2	0.0E+0	7.2E+2	0.0E+0
TPH - Aliph >C12-C16	7.2E+2	0.0E+0	7.2E+2	0.0E+0
TPH - Aliph >C16-C21	7.2E+2	0.0E+0	7.2E+2	0.0E+0
TPH - Aliph >C21-C34	7.2E+2	0.0E+0	7.2E+2	0.0E+0

ATTACHMENT C

HYDROGRAPHS

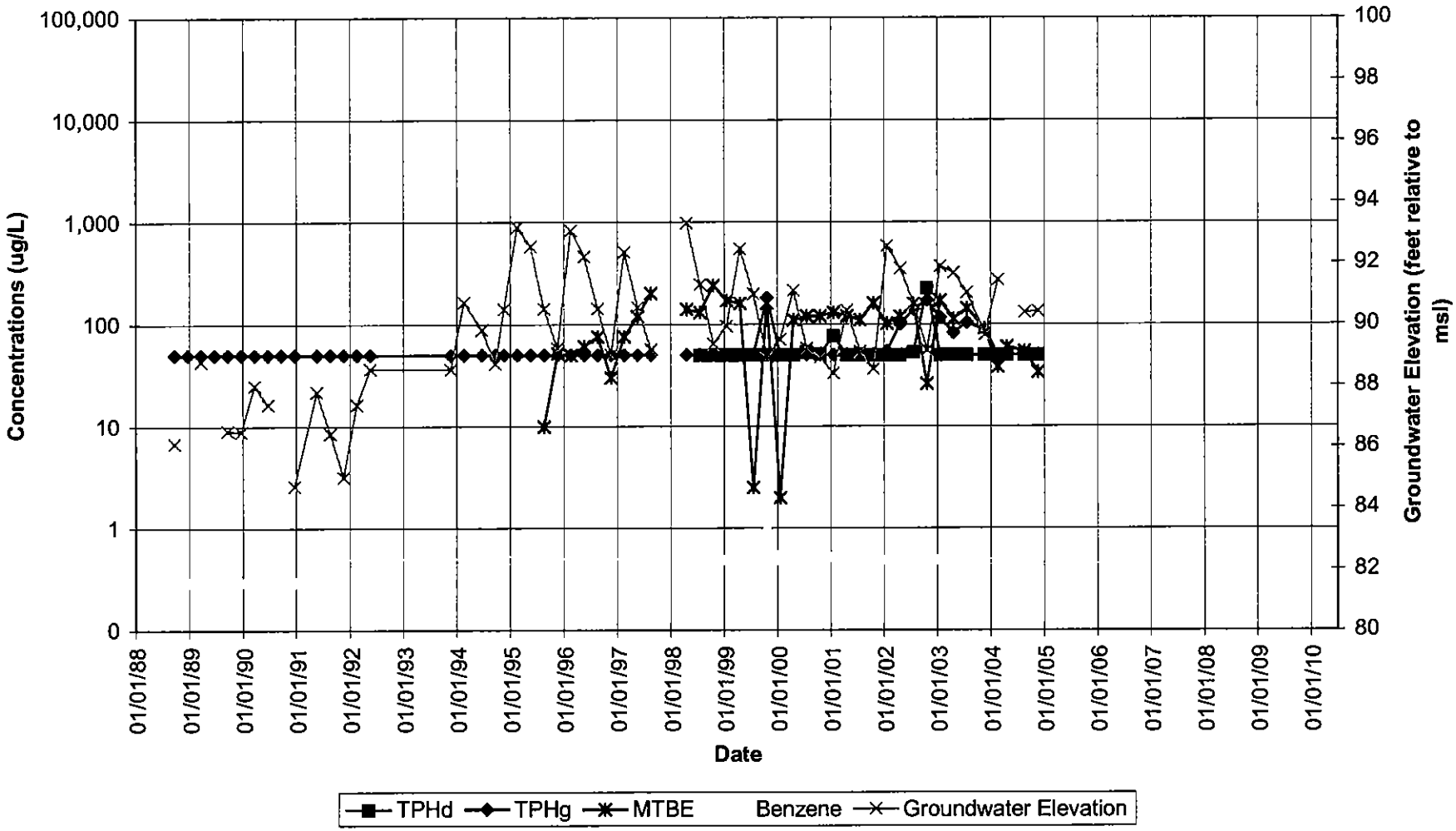
HYDROGRAPH - MW2

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



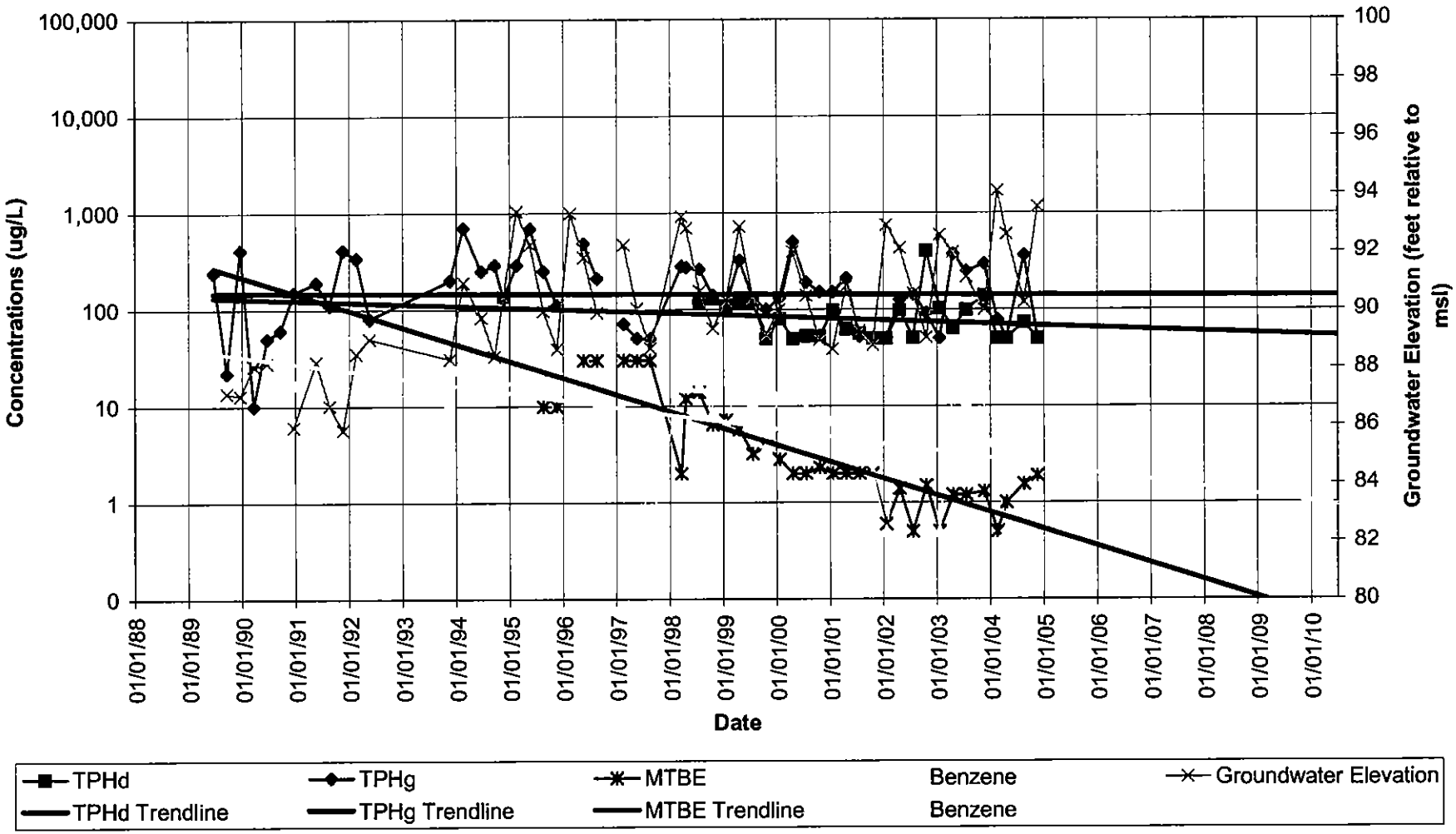
HYDROGRAPH - MW11

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



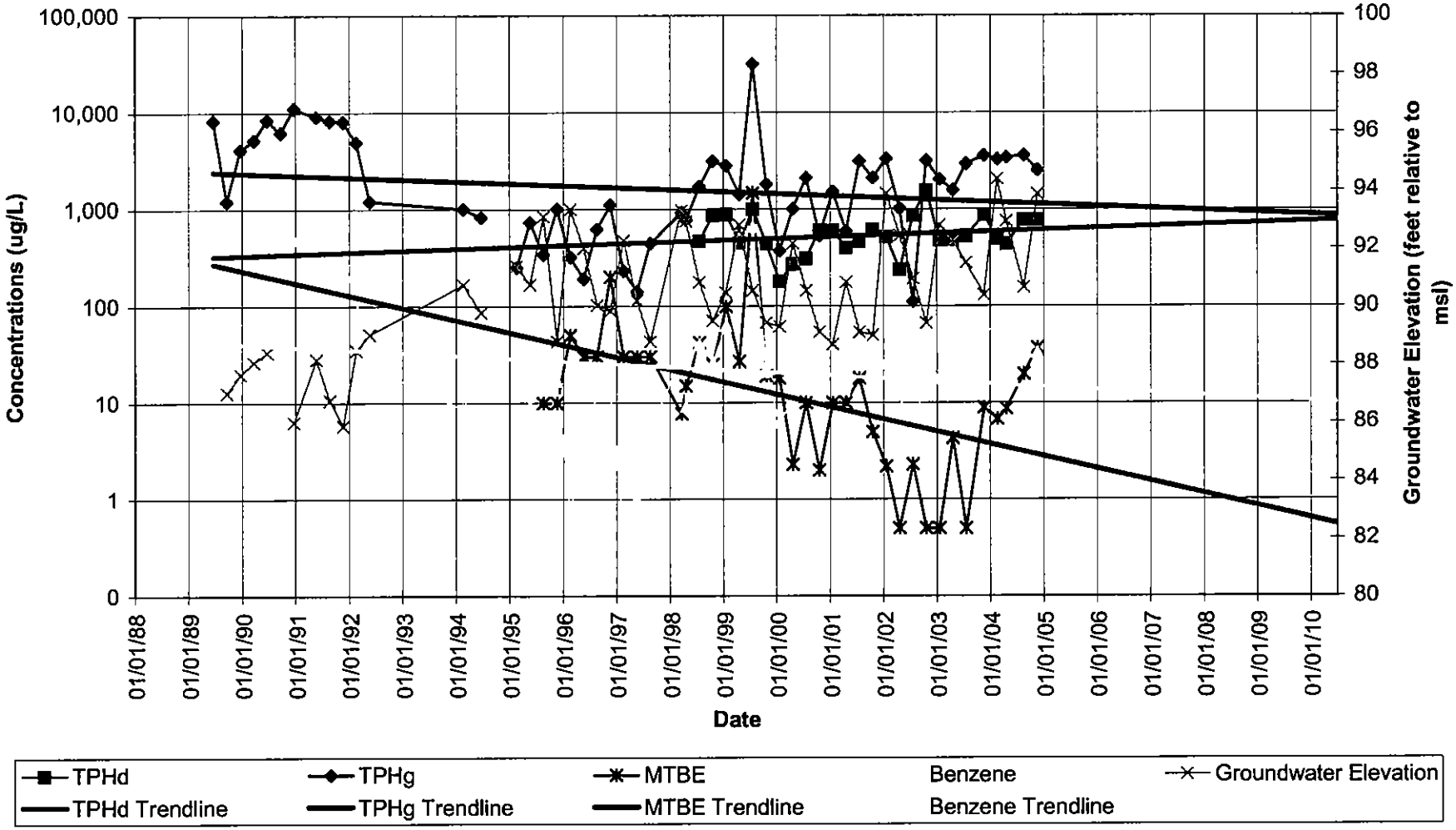
HYDROGRAPH - MW12A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



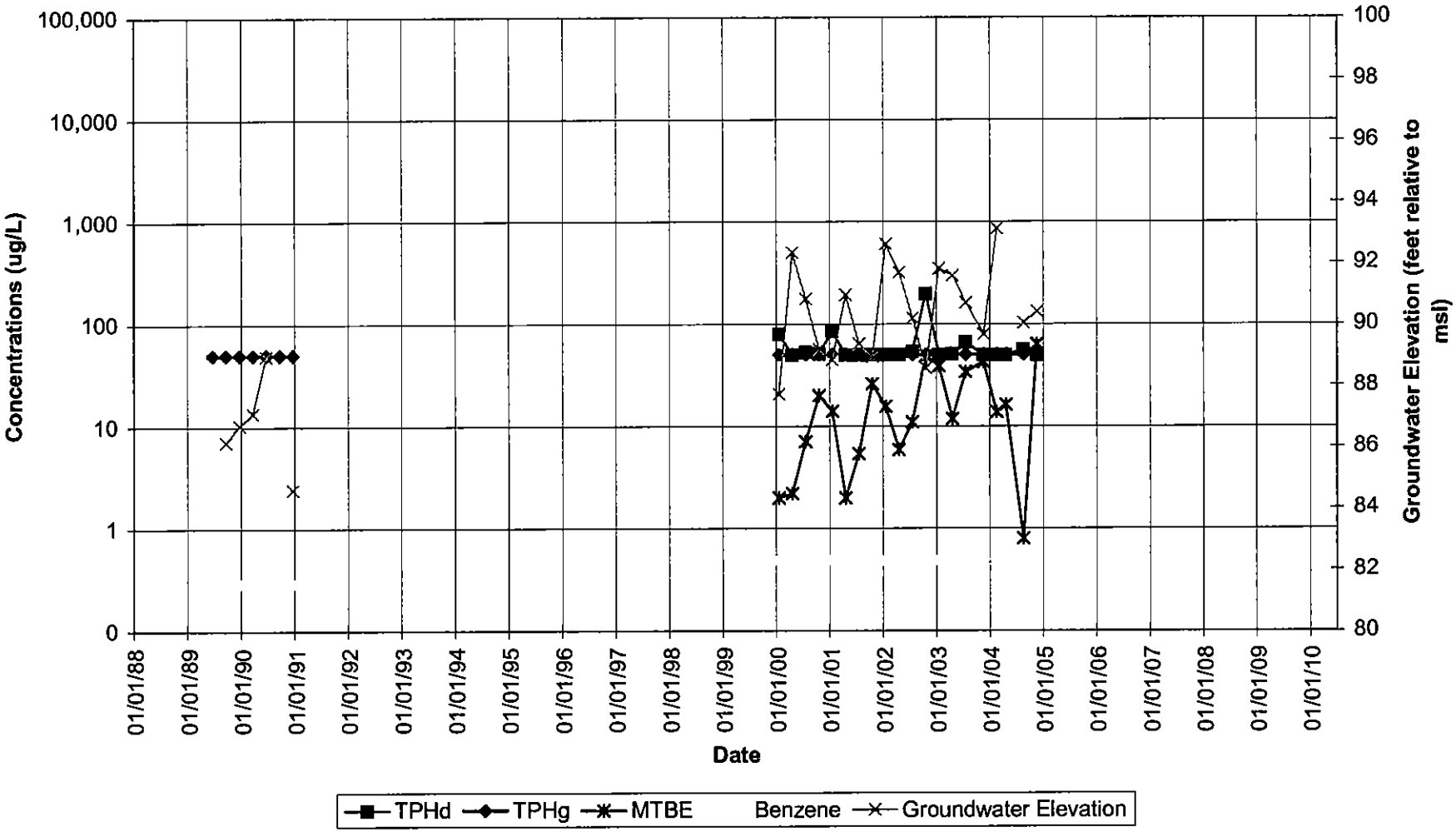
HYDROGRAPH - MW12B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



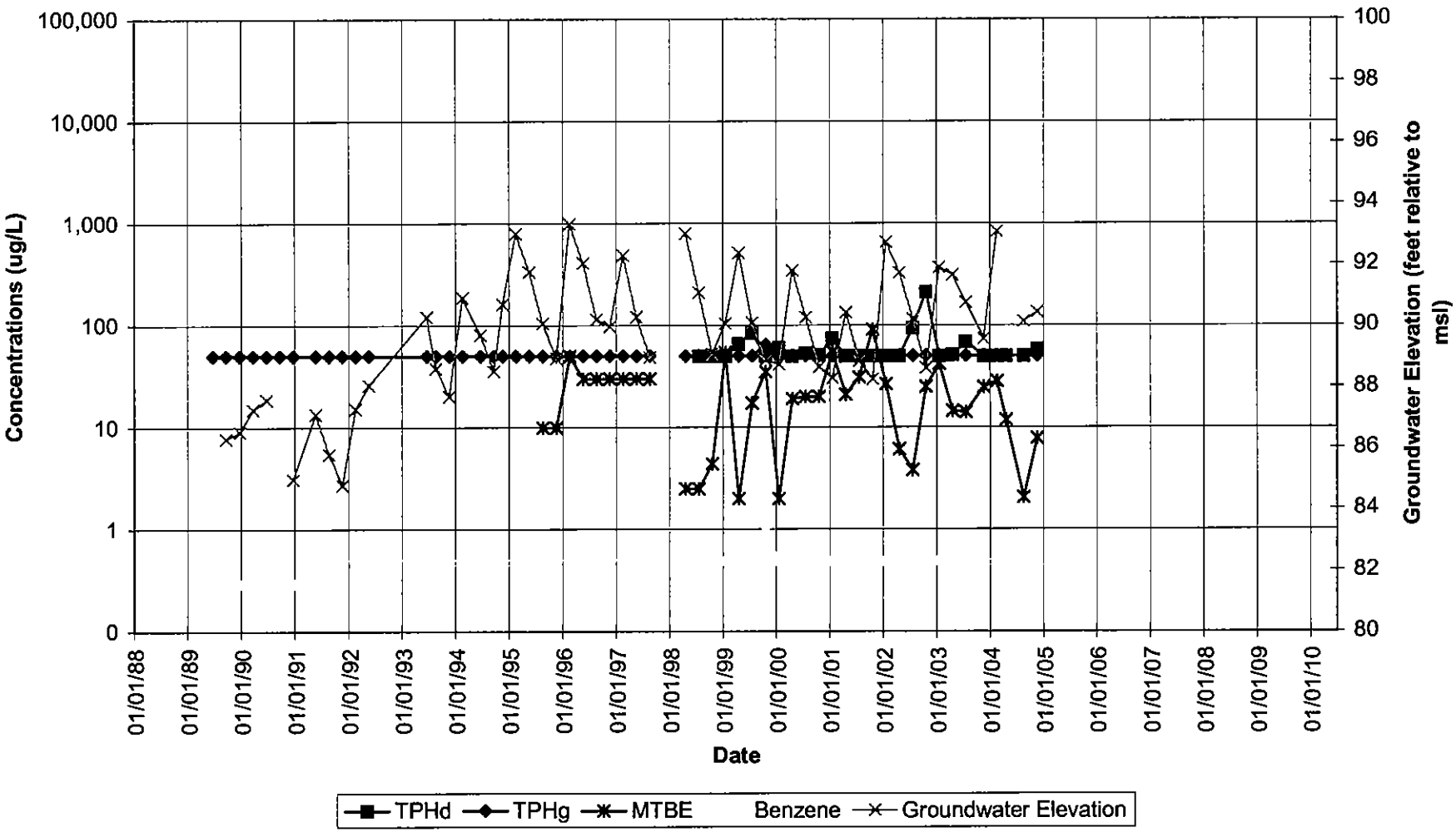
HYDROGRAPH - MW13A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



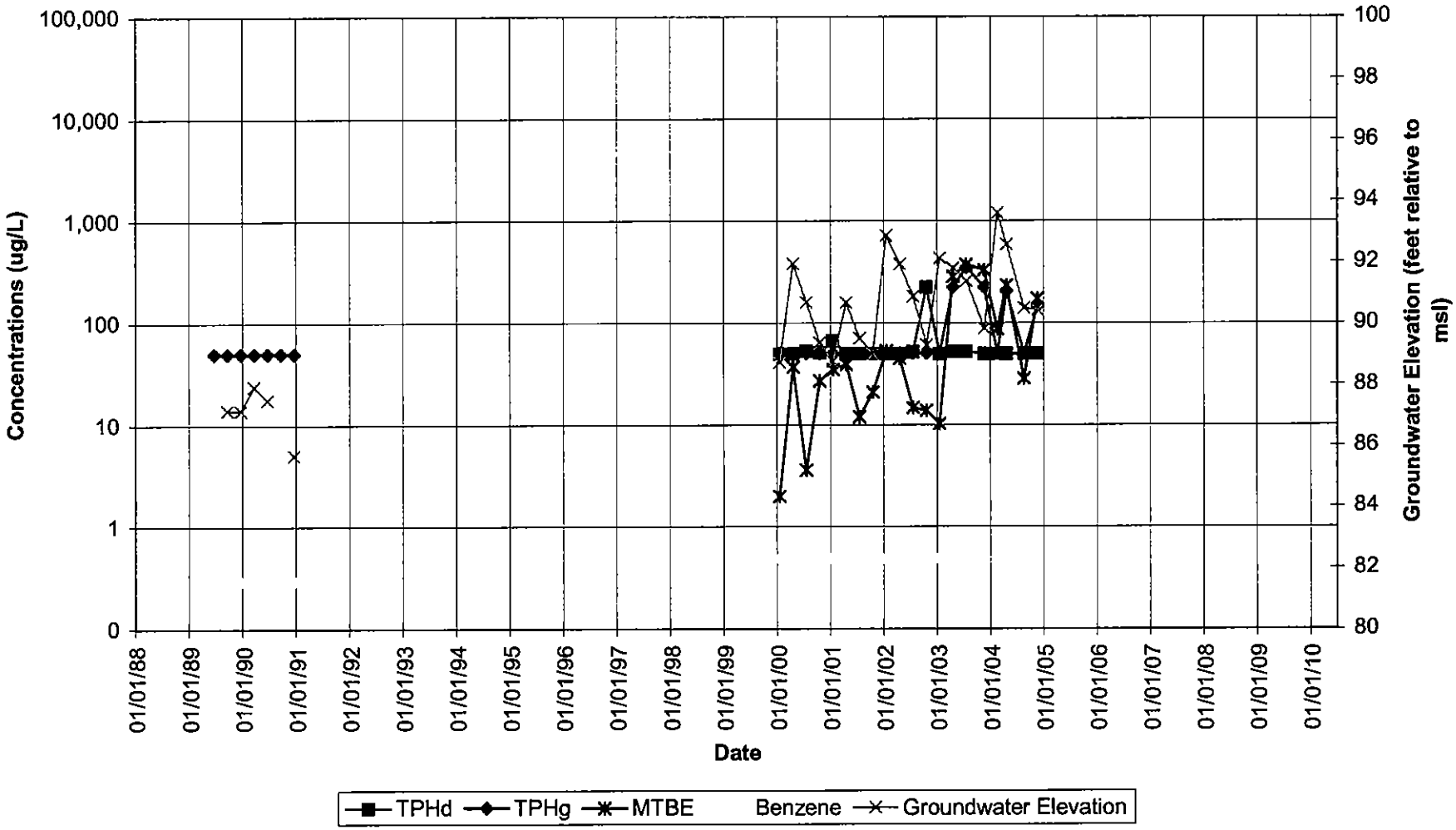
HYDROGRAPH - MW13B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



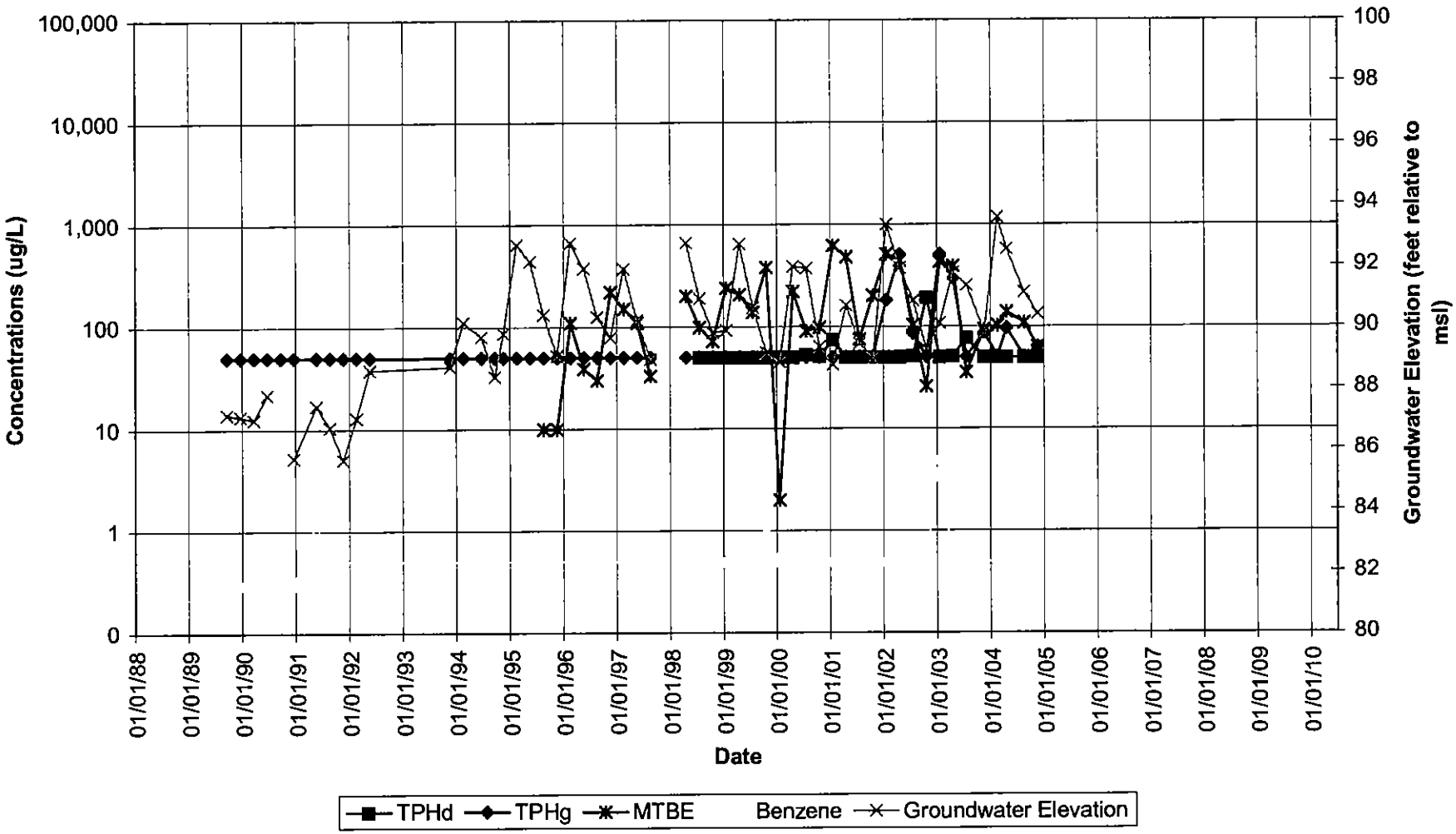
HYDROGRAPH - MW14A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



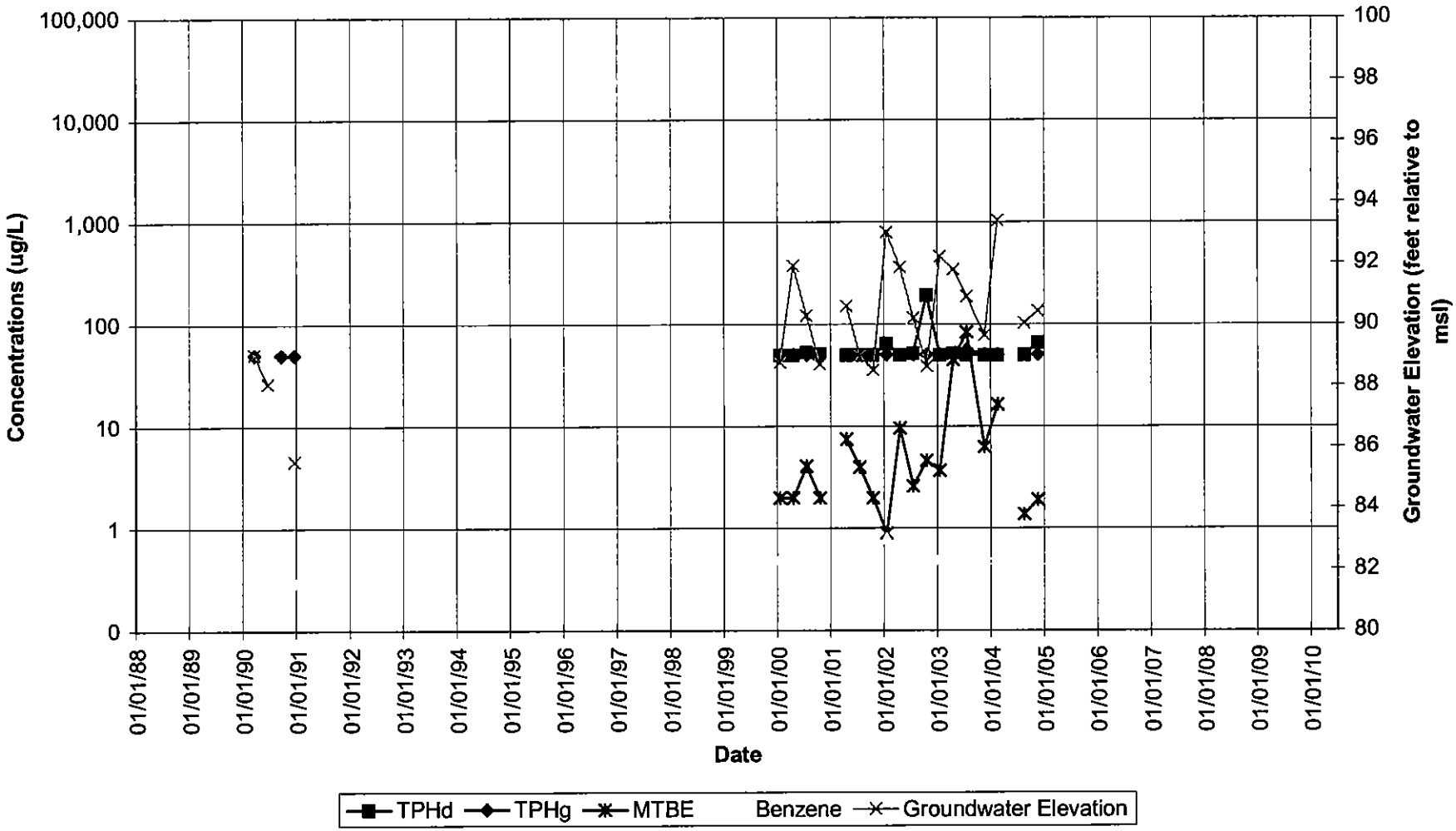
HYDROGRAPH - MW14B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



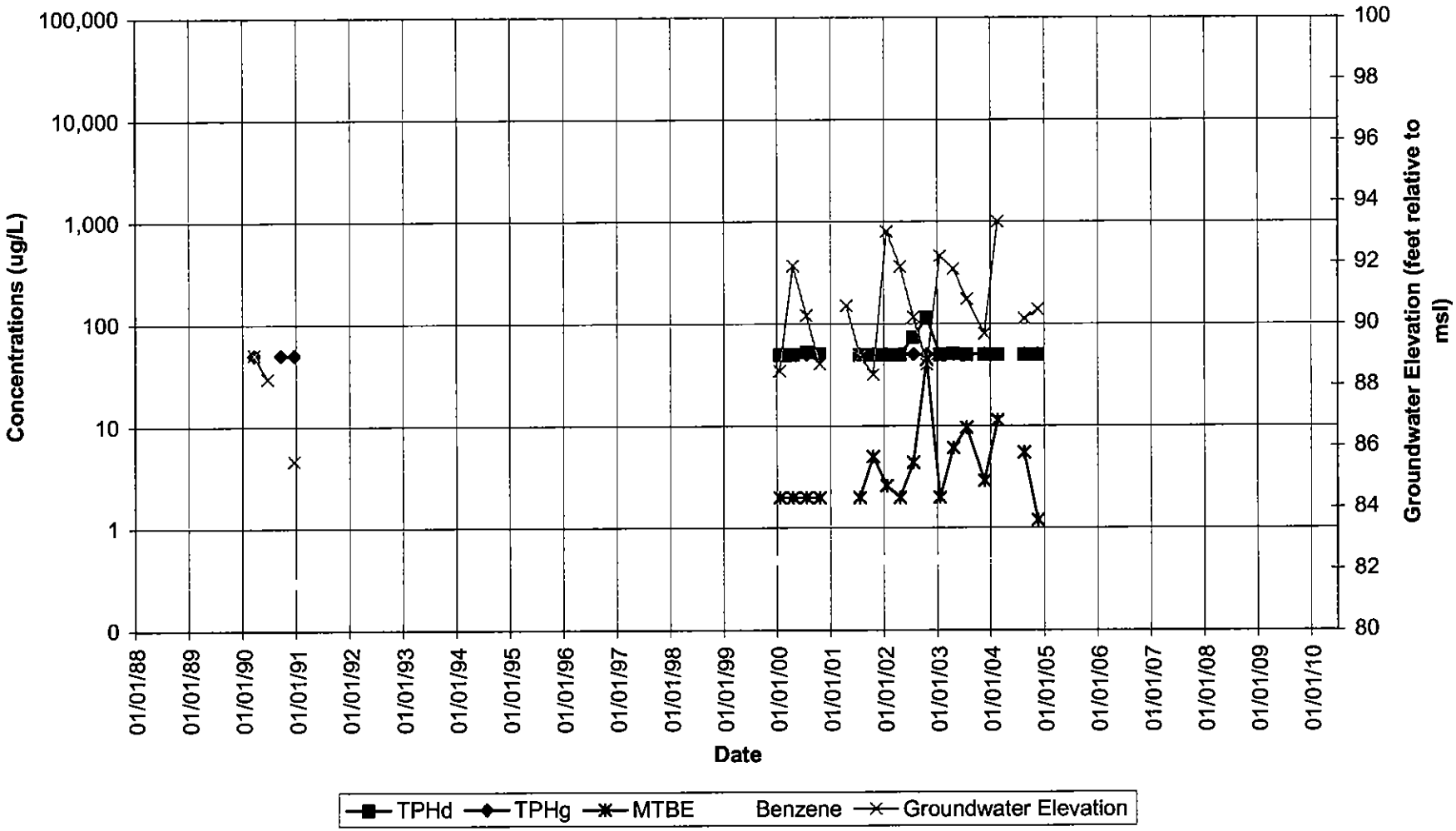
HYDROGRAPH - MW15A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



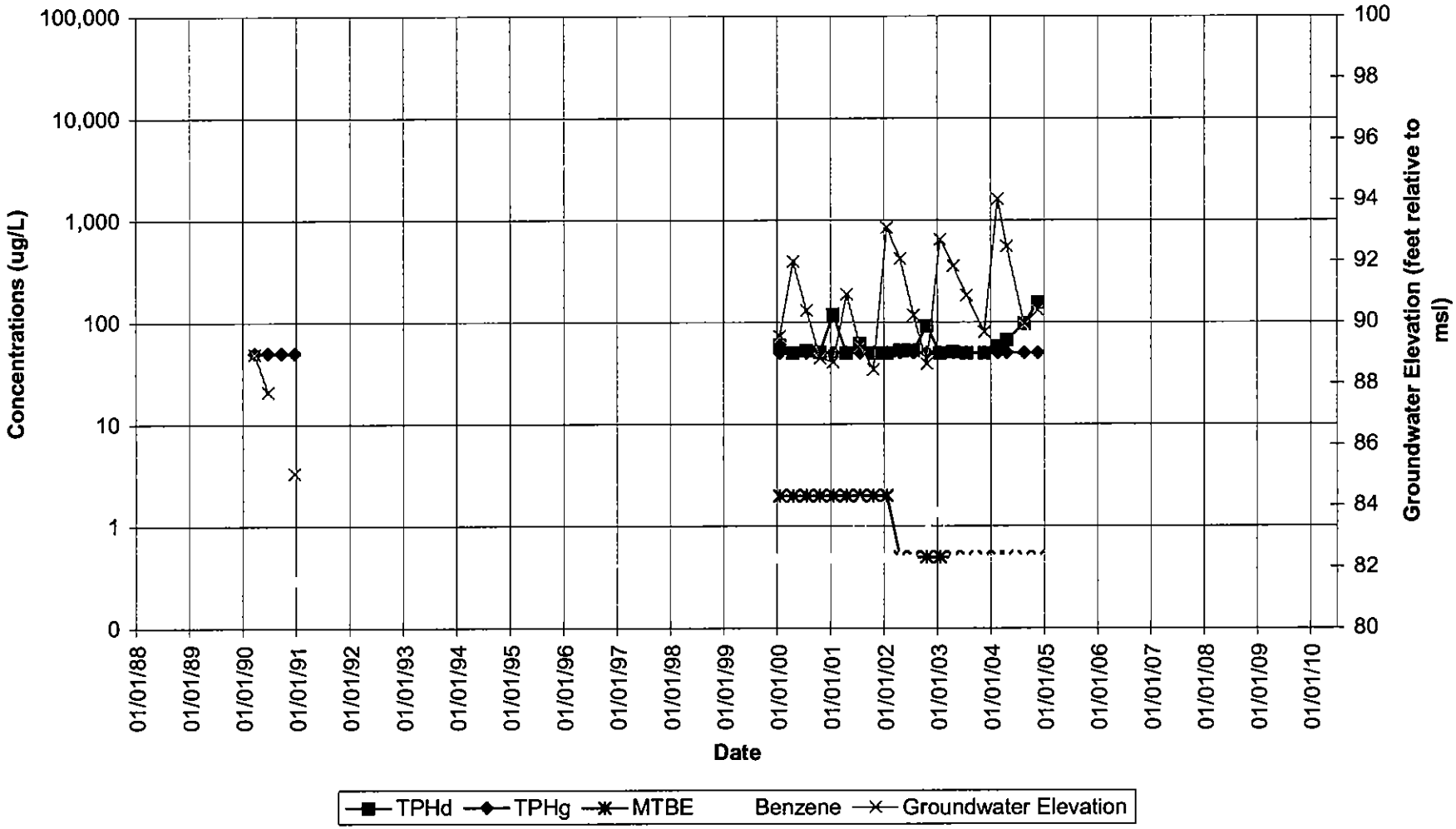
HYDROGRAPH - MW15B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



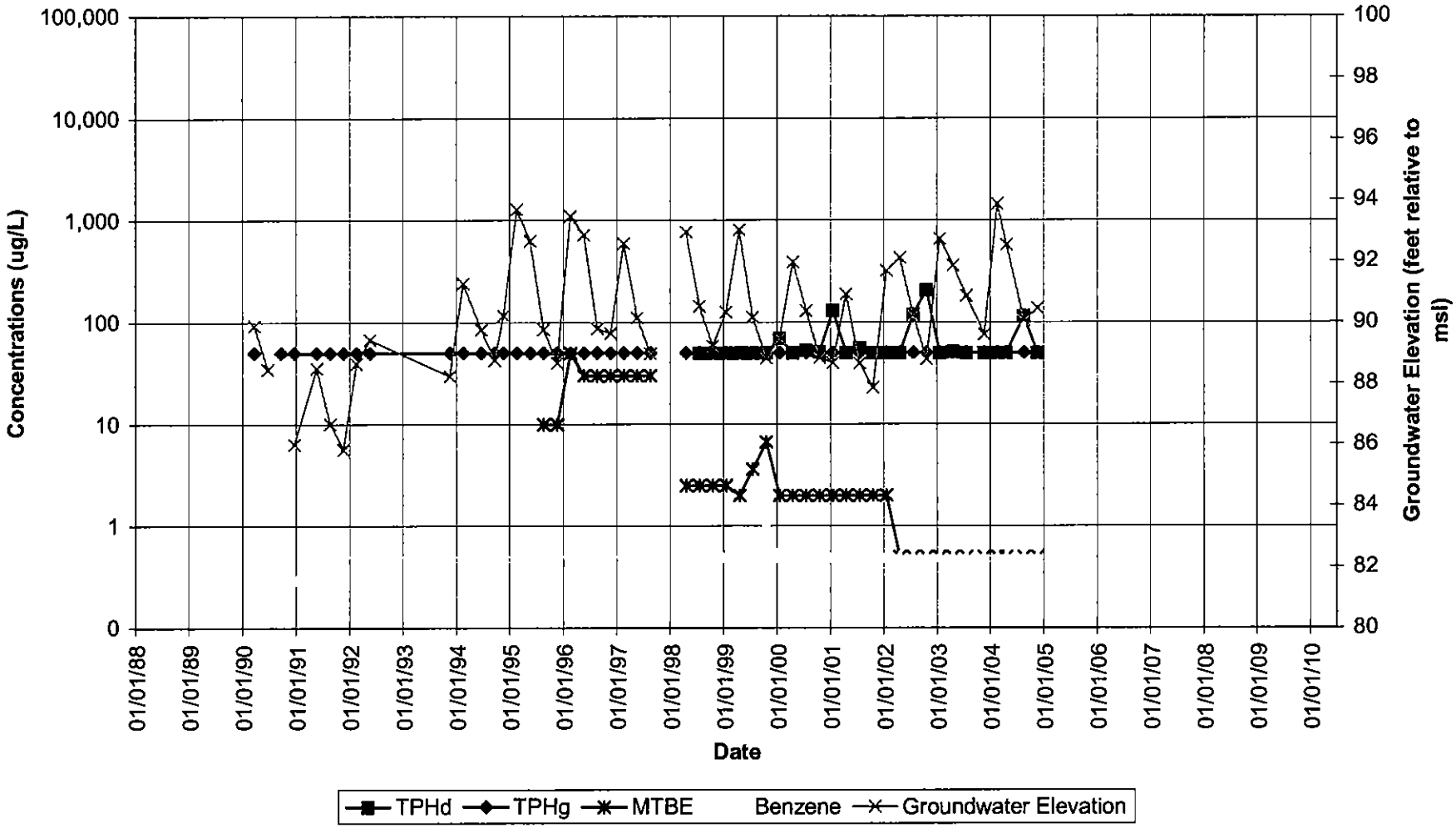
HYDROGRAPH - MW16A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



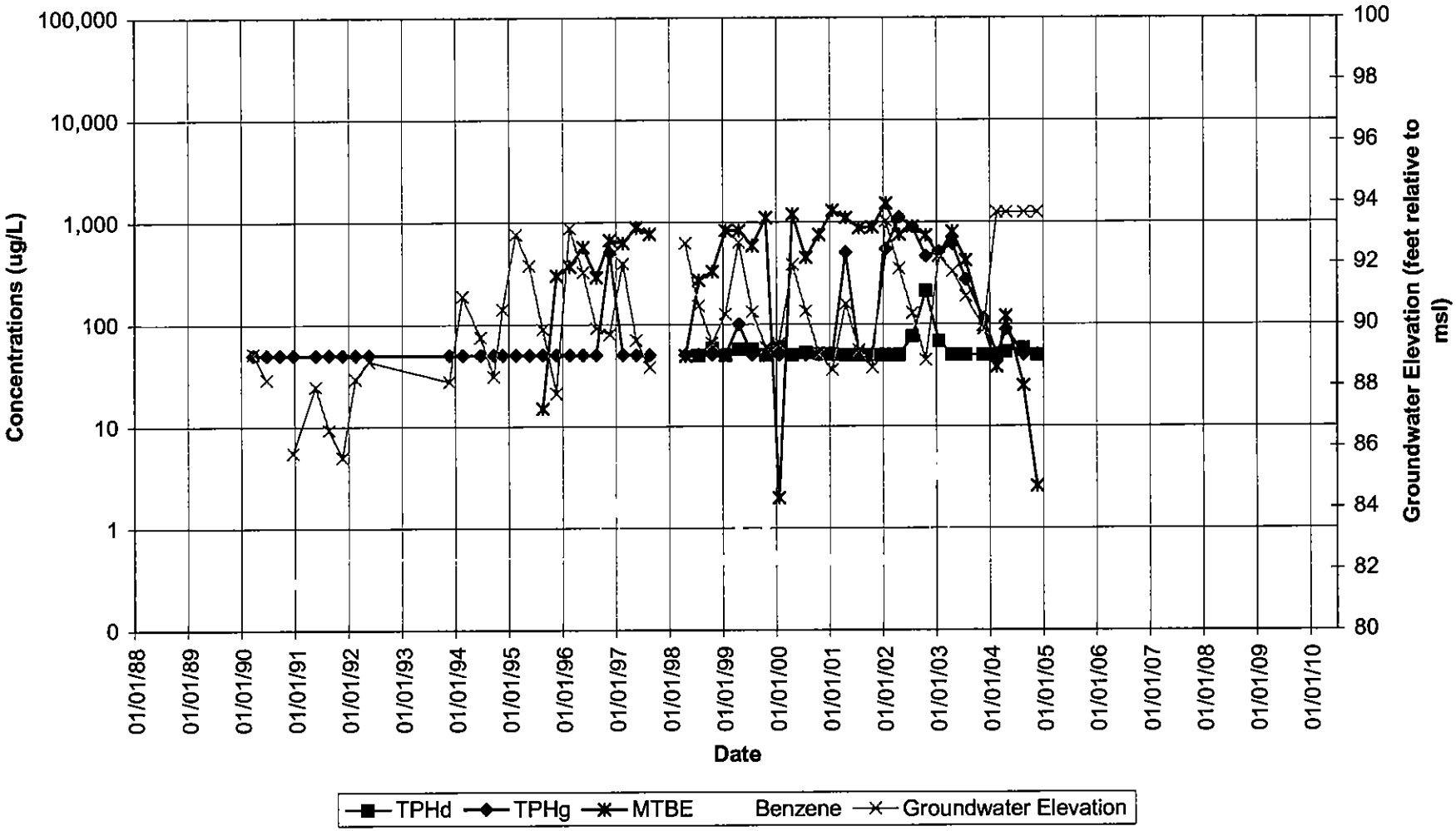
HYDROGRAPH - MW16B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



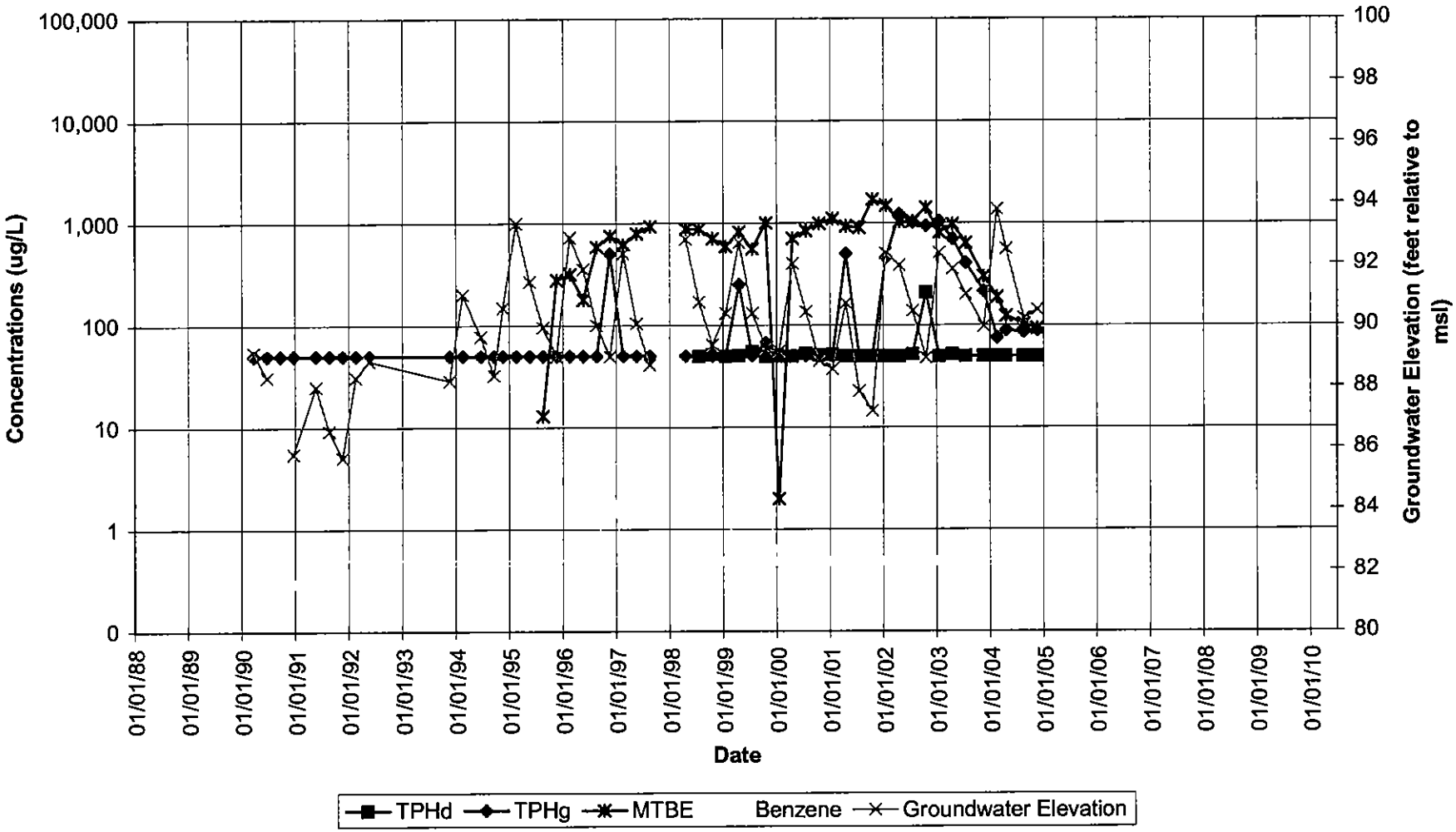
HYDROGRAPH - MW17A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



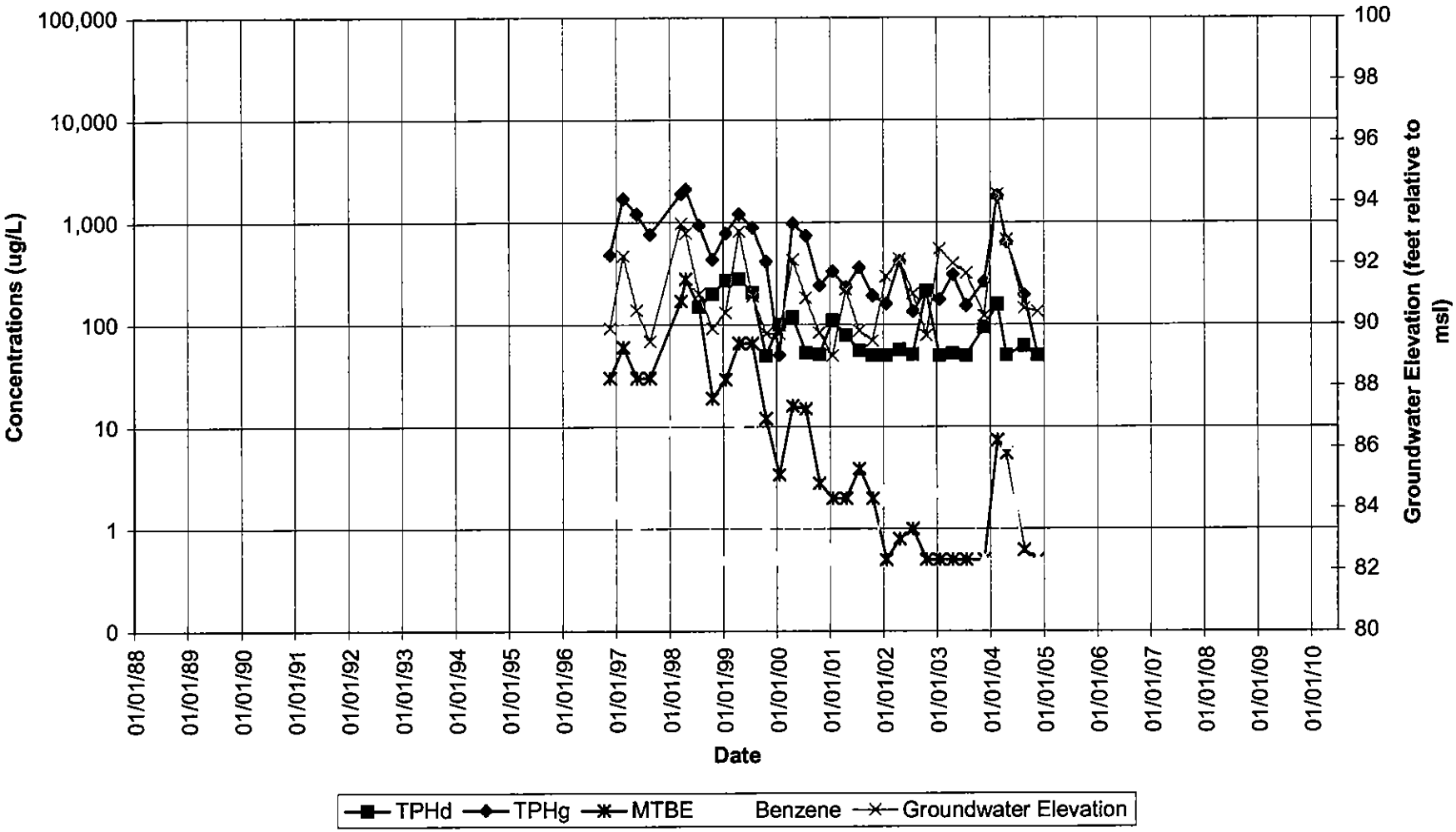
HYDROGRAPH - MW17B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



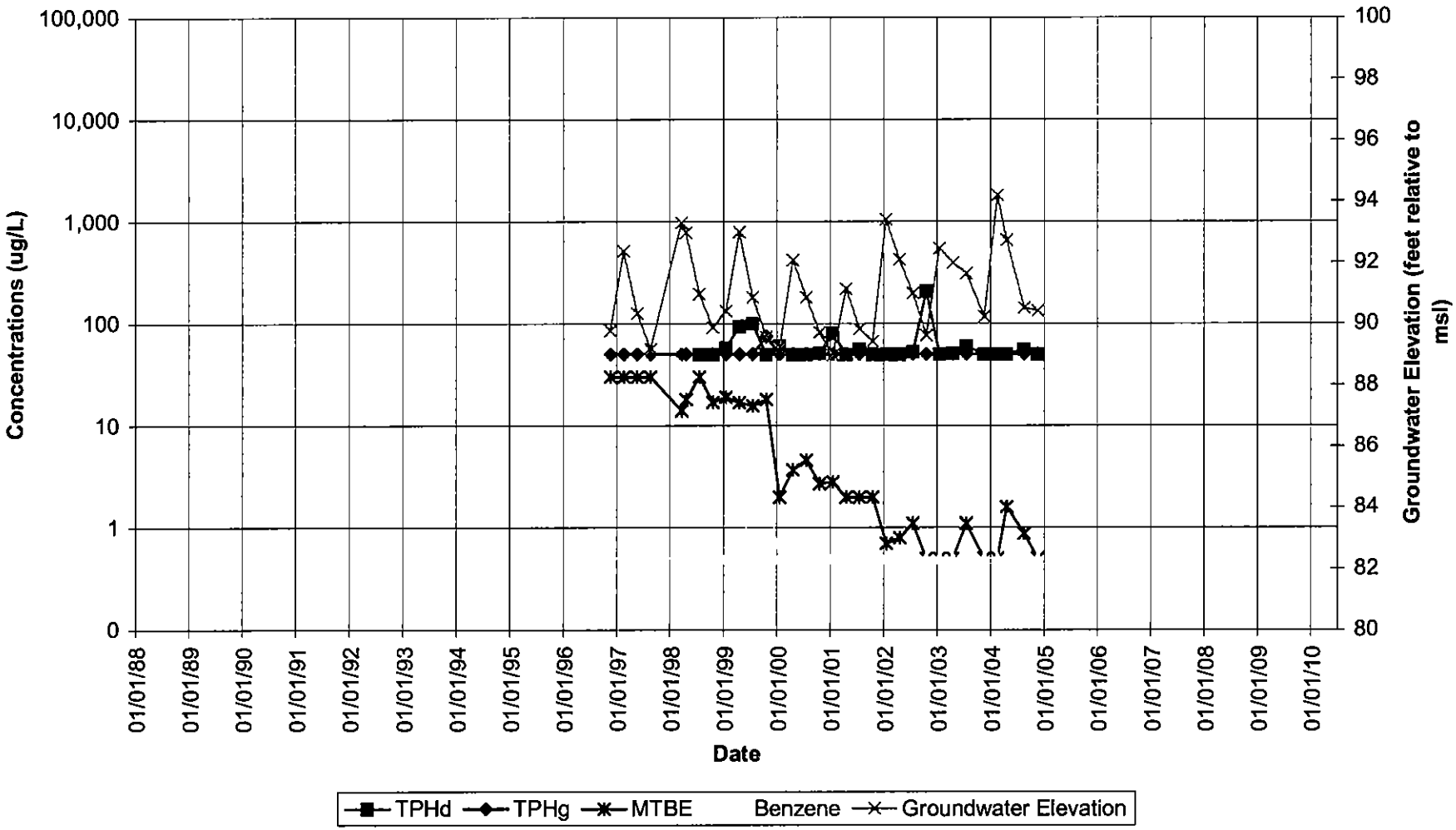
HYDROGRAPH - MW18A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



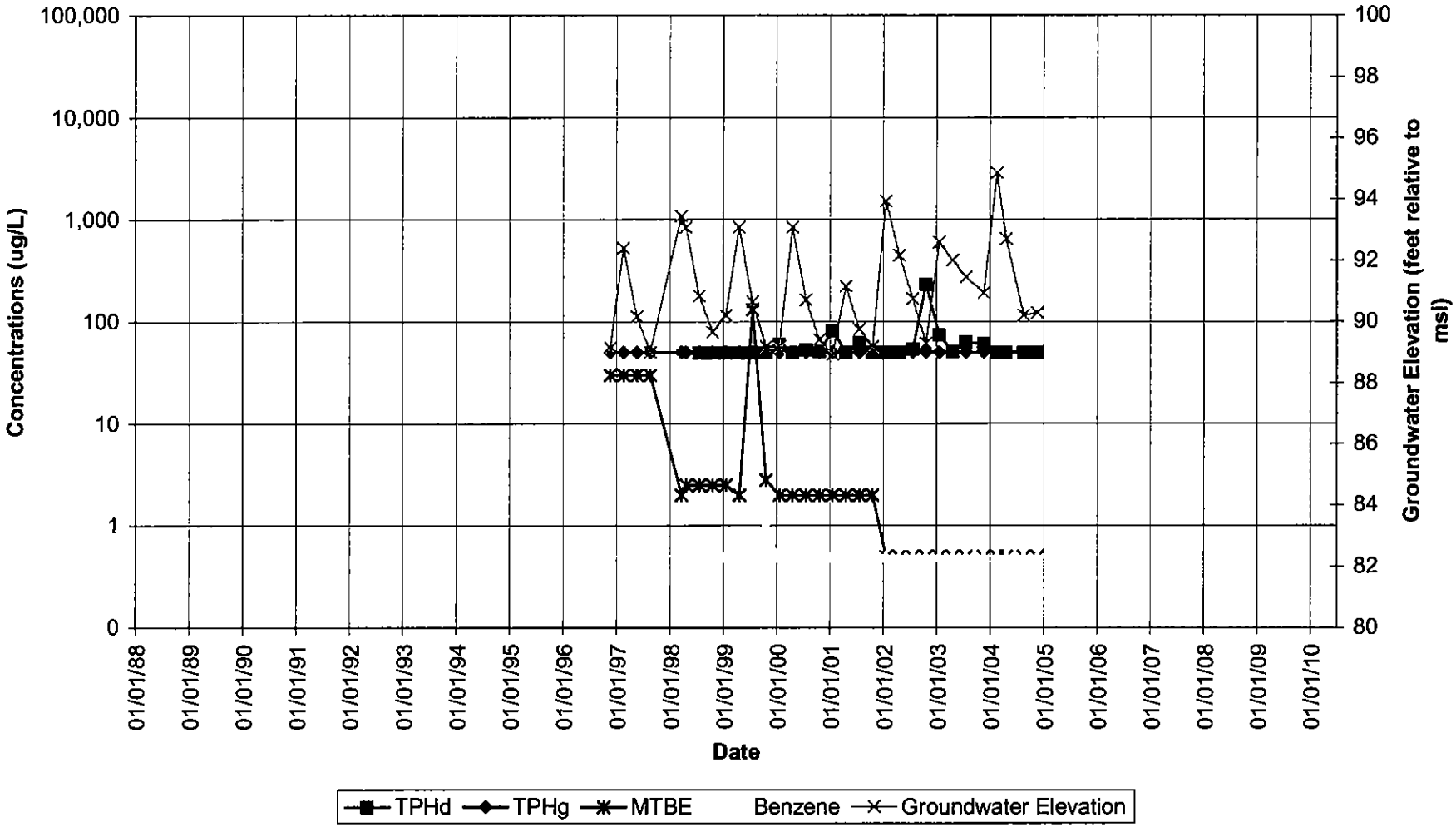
HYDROGRAPH - MW18B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



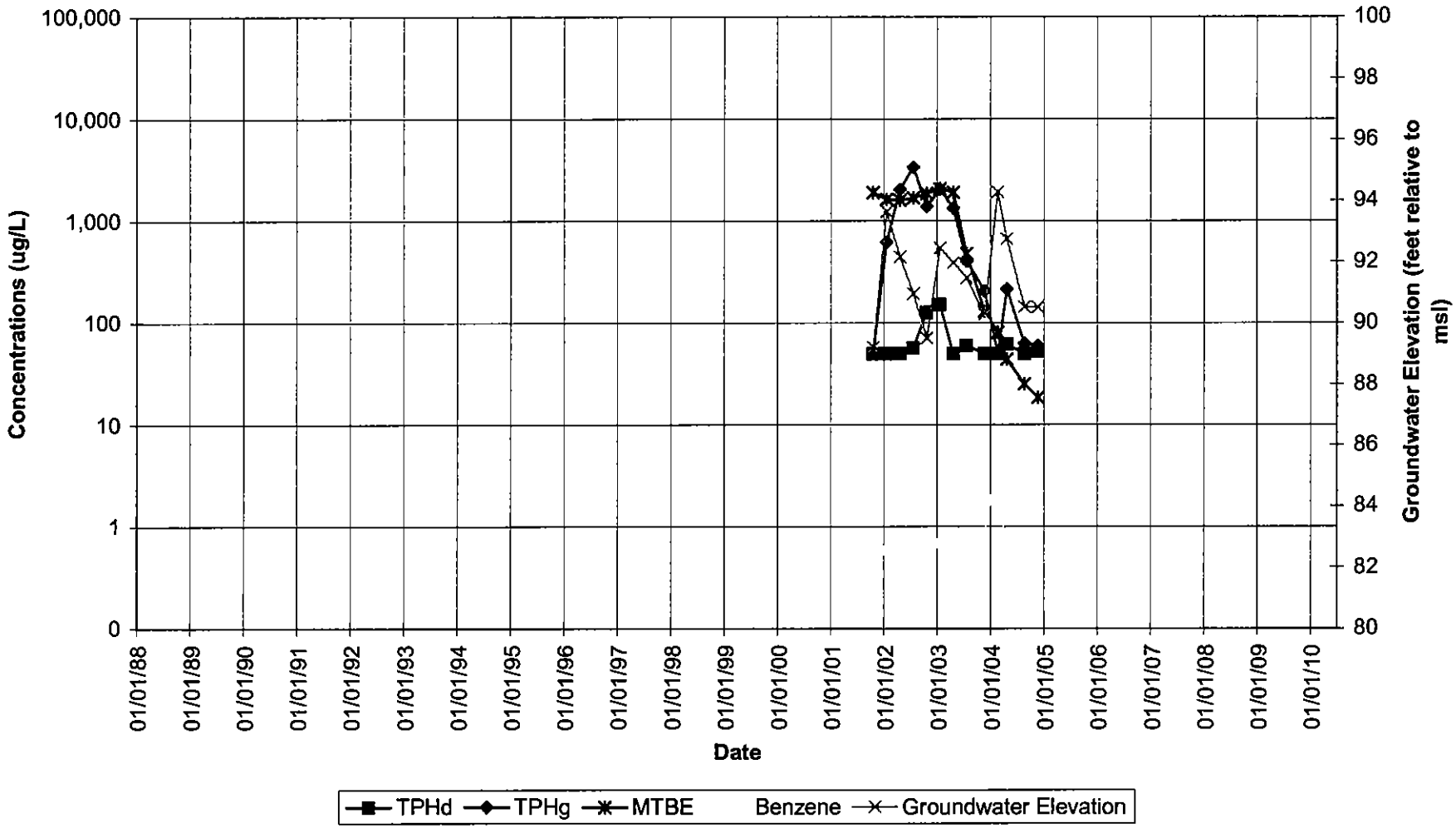
HYDROGRAPH - MW19

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



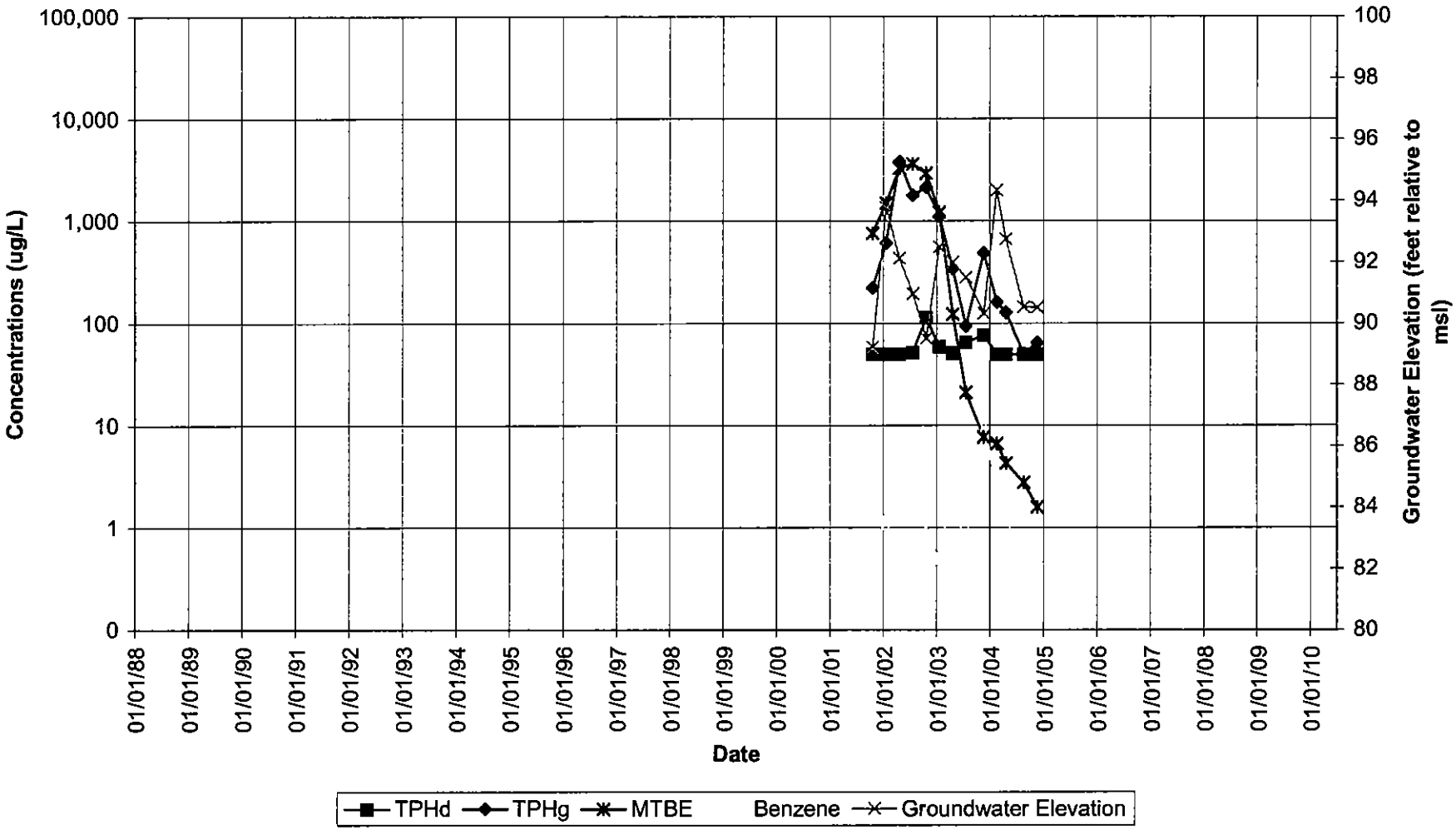
HYDROGRAPH - MW20A

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



HYDROGRAPH - MW20B

Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California



ATTACHMENT D

RESIDUAL MASS CALCULATIONS

xylenes (BTEX); and methyl-tertiary butyl ether (MTBE). Select physical, chemical, and toxicological properties of these COCs are summarized in Attachment B. The aerobic decay rates for the COCs in saturated soil and unsaturated soil are also provided in Attachment B.

SITE CONDITIONS

Geology and Hydrogeology

Sediment underlying the site consists predominantly of clay and silty clay interspersed with small isolated lenses of sand. There are two continuous and discrete water-bearing sand layers ranging in thickness of one to ten feet. The upper water-bearing sand is at a depth of approximately 5 to 15 feet below ground surface (bgs). The lower water-bearing sand is at a depth of approximately 20 to 27 feet bgs. A layer of clayey sediment separates the upper and lower water-bearing sand layers. Cross sections and boring logs for the site are provided in Appendices B and C of the CAP (ERI, September 17, 2004).

The depth to static groundwater in wells screened in the upper-water bearing zone has historically ranged between approximately 5 to 14 feet bgs, with an average hydraulic gradient of 0.007 and a predominant groundwater flow direction to the southwest. The depth to static groundwater in wells screened in the lower-water bearing zone has historically ranged between approximately 5 to 14 feet bgs with an average hydraulic gradient of 0.005 and a predominant groundwater flow direction to the southwest. Groundwater flow within the upper water-bearing sand is primarily to the southwest and south-southeast, with occasional flow direction to the northeast. Groundwater flow within the lower water-bearing zone is also predominantly to the southwest and south-southeast. The similarity of groundwater elevations and flow directions within the upper and lower zones indicates some hydraulic connection between the two zones.

Cumulative groundwater elevation data are summarized in Table 1A; the groundwater elevations and COC concentrations are graphically summarized on the individual well hydrographs (Attachment C). These data indicate the depths to static groundwater and corresponding groundwater elevations vary seasonally. The average depth to static groundwater in individual wells has ranged from 7.16 to 9.52 feet bgs. The maximum measured depth to static groundwater in individual wells has ranged from 9.41 to 13.46 feet bgs. For the purposes of this document, ERI identifies the vadose zone as extending from ground surface to approximately 12 feet bgs.

The calculated seepage velocity of the upper and lower water bearing zones is 4.23×10^{-5} and 3.13×10^{-5} centimeters per second (cm/sec).

Distribution, Mass, and Migration Potential of Residual Hydrocarbons, and Potential Source Areas

Cumulative results of laboratory analyses of soil samples collected during UST removal and subsequent soil assessment are summarized in Table 2; the locations of the soil samples are shown in Attachment D. Based on these data, ERI identified five areas at the site which represent potential secondary source areas (Areas I through V) for dissolved-phase COCs in groundwater. The locations of the potential secondary source areas are depicted on Plate D1 (Attachment D).

ERI compiled residual COC concentrations in vadose and saturated zone sediments within each potential source area (Attachment D, Tables D1 and D2), and calculated the residual mass for each COC remaining in place in vadose and saturated sediment (Attachment D Tables D3 and D4) within each area based on the mean COC concentration within each potential source area (Plate D1). ERI also calculated the residual COC mass in place for the area of the site outside the potential source areas (Area VI). ERI did not calculate the mass of residual MTBE remaining in place due to insufficient data. The results are

summarized in Table 3. The estimates of COC mass remaining in place are highly conservative (i.e., are higher than actual values) because:

- A value of half the nominal detection limit was used for concentrations reported as below detection limits to calculate mean concentrations;
- The calculations did not take into account natural degradation,
- Most soil samples were collected 10 to 19 years ago;
- The limits of the potential source areas are conservatively large.

In vadose sediment, the maximum reported residual TPHg (up to 600 milligrams per kilogram [mg/Kg]) and benzene (13 mg/Kg) concentrations were reported in samples collected from sediment underlying the former gasoline USTs, which were removed in 1986. However, during subsequent soil and groundwater assessment in 1995, soil samples with TPHg concentrations up to 21,000 mg/Kg and benzene concentration up to 150 mg/kg were collected from boring B8, located north of the existing gasoline USTs. Residual saturation concentrations of gasoline range from approximately 950 to 7,500 mg/Kg (API, 1898). Therefore, the reported TPHg concentration of 21,000 mg/Kg may indicate the presence of separate-phase gasoline in that location in 1995, at the time these samples were collected. The depth of the sample (14 to 15 feet bgs) and the historical range of depths to groundwater indicate that the depth interval of the sample is most often submerged. Therefore, if separate-phase gasoline is present in this area and depth interval it is most likely trapped and immobile. Borings B6 and B10, drilled as part of the same 1995 investigation, provide lateral delineation of the elevated TPHg concentrations (possibly submerged separate phase) found in boring B8; the vertical extent is also adequately delineated by the deeper soil samples collected in boring B8. Also, hydrocarbon sheen was reportedly present in well MW10 during June 1993, and historical dissolved-phase TPHg and BTEX concentrations (Table 1A) may indicate proximity to a primary source. However, dissolved-phase COC concentrations in nearby existing wells MW18A, MW18B, MW20A, and MW20B are not indicative of proximity to a primary source, concentrations in well MW10 showed declining trends prior to destruction in 2001, and concentrations in well MW8 were generally not indicative of proximity to a primary source. These observations suggest the extent and mass of separate-phase gasoline was limited, and natural degradation has occurred. If present, immobile gasoline hydrocarbons represent a potential secondary source of dissolved-phase hydrocarbons to groundwater downgradient of this location.

The amount of residual COC mass, and the lateral and vertical distribution of COC mass, indicated the following:

- Residual diesel-range hydrocarbons (TPHd) are present predominantly in vadose soil (0 to 12 feet bgs) underlying the former fuel-oil UST; between approximately 10 to 12 feet bgs. A lesser amount is present in vadose soil underlying the former used-oil UST.
- Residual gasoline-range hydrocarbons (TPHg) are present predominantly in vadose soil underlying the former gasoline USTs and the former used-oil and fuel oil USTs, and the area north of the existing gasoline UST pit.
- Residual benzene is present predominantly in vadose soil underlying the former gasoline UST pit.
- In saturated sediment (below 12 feet bgs), residual diesel-range hydrocarbons are present only in sediment underlying the former used-oil UST.
- Residual gasoline-range hydrocarbons are present in saturated sediment underlying the former gasoline UST pit, the former fuel-oil UST pit, and the area north of the existing gasoline USTs. Approximately 85% of the residual gasoline-range hydrocarbon mass is present in saturated sediment north of the existing gasoline USTs, based on the distribution and estimated mass calculations (Attachment D).
- Residual benzene is present in saturated sediment underlying the former gasoline UST pit; trace amounts are present in saturated sediment underlying the former used-oil UST. Approximately 83% of the residual benzene mass, based on the distribution and estimated mass calculations (Attachment D), is present in saturated soil north of the existing gasoline USTs.

ERI evaluated the potential migration of residual benzene in vadose sediment (0 to 12 feet bgs) to underlying groundwater using the VLEACH computer program (Ravi and Johnson, 1997), distributed by the United States Environmental Protection Agency. A summary of the input data, input files, and results are included in Attachment E. ERI calculated the mean benzene concentration in samples of vadose soil in each of the potential source areas (Attachment D, Plate D-1), and used the mean concentration as the input value. The VLEACH model results are highly conservative (i.e. the mass flux predicted is higher than actual values) because:

- a value of half the nominal detection limit was used for concentrations reported as below detection limits to calculate mean concentrations;
- the calculations did not take into account natural degradation;
- most soil samples were collected 10 to 19 years ago; and
- the limits of the potential source areas are conservatively large.

The VLEACH model predicts the following:

- The total initial mass flux of benzene from vadose soil underlying the site to groundwater is approximately 10.3 grams per year (g/yr).
- Impacted soil underlying the former gasoline USTs (Area III, Plate D-1) contributes the most benzene mass flux (initially approximately 6.0 g/yr).
- Benzene mass flux diminishes quickly with time (Graph E-1).

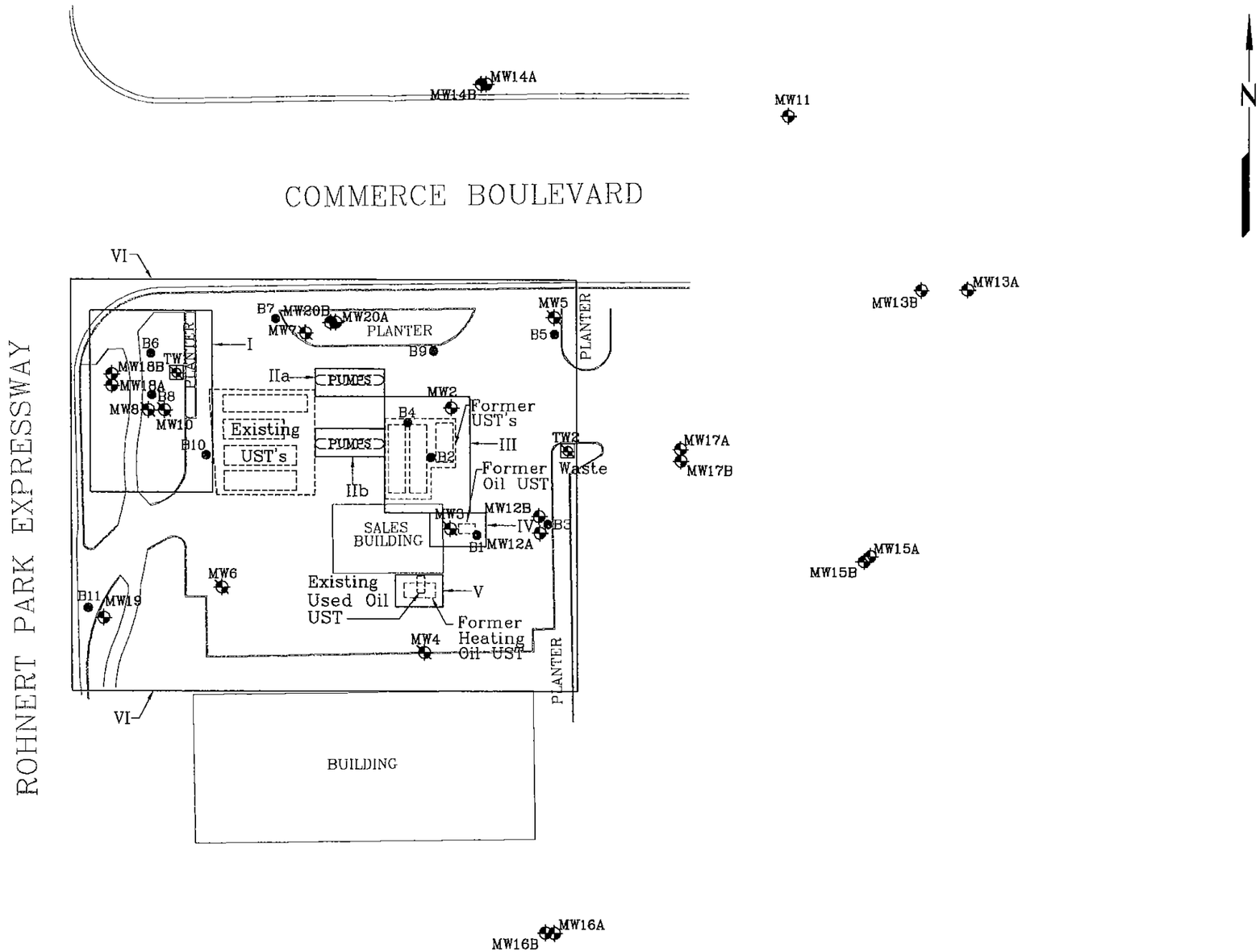
Distribution, Mass, and Migration Potential of Dissolved-Phase Hydrocarbons in Groundwater

Cumulative results of groundwater monitoring and sampling are summarized in Tables 1A and 1B and are graphically summarized on the individual well hydrographs (Attachment C). Isoconcentration maps for select COCs within the upper and lower water-bearing zones compiled using the most-recent monitoring and sampling data (November 2004) are presented as Plates 3 through 9.

ERI calculated the mass of dissolved-phase COCs in groundwater for the upper and lower water-bearing zones (Attachment F). The results of the calculations are summarized in Table 4, and indicate:

- Approximately 0.765 lb of dissolved-phase gasoline-range hydrocarbons (TPHg) is present in the upper water bearing zone; approximately 0.075 lb of gasoline-range hydrocarbons (TPHg) is present in the lower water-bearing zone.
- Approximately 0.027 lb of dissolved-phase benzene is present in the upper water-bearing zone; benzene is generally not present in reportable concentrations in the lower water-bearing zone.
- Approximately 0.361 lb of dissolved-phase MTBE is present in the upper water-bearing zone; approximately 0.199 lb is present in the lower zone.

ERI calculated the bulk decay rate for dissolved benzene and MTBE for wells in which the benzene concentration exceeds the water quality objective for groundwater used for domestic or municipal supply as listed in Table 3-2 of the Regional Water Quality Control Board Basin Plan, and for select wells in which the MTBE concentration exceeds the primary MCL. Using the hydrographs for wells that benzene and MTBE exceed water quality objectives, ERI evaluated the trends of benzene and MTBE. Using these trends, ERI calculated the bulk decay rates assuming first-order exponential decay. Well MW12 B is the only well in which the dissolved benzene concentration exceeds the water quality objective of 1 microgram per liter (ug/L). The calculated bulk decay rate indicates that benzene will reach the water quality objective in approximately 9.6 years. Wells MW11, MW12B, MW13A, MW14A, MW14B, MW17B, and MW20A are the only wells in which the dissolve MTBE concentration exceeds the primary MCL of 13 ug/L. The calculated bulk decay rate indicates that MTBE will reach the primary MCL in on-site well MW20A in approximately 50 days, and in off-site wells MW17B, MW14A, and MW14B in approximately 1.7 years, 7 years, and 2.2 years, respectively.



APPROXIMATE SCALE

0 50 100 Feet

FN 2002003a_SP

ERI ENVIRONMENTAL RESOLUTIONS, INC.

DISTRIBUTION OF RESIDUAL HYDROCARBONS AND POTENTIAL SOURCE AREAS

FORMER EXXON SITE 7-0249
6301 Commerce Blvd.
Rohnert Park, CA

EXPLANATION

MW20B Groundwater Monitoring Well

MW10 Destroyed Groundwater Monitoring Well

TW2 Destroyed Groundwater Recovery Well

B11 Soil Boring

VI Limits of polygon/source area used to calculate residual COC mass in place

PROJECT NO. 2002

PLATE D1

TABLE D1
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Vadose Sediment; 0 to 12 feet Below Ground Surface
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 1 of 2)

Sample ID	AREA	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
				<.....mg/Kg.....>								
B-10	I	12/6/1995	5-5.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-10	I	12/6/1995	11-11.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-6	I	12/6/1995	5.5-6	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-6	I	12/6/1995	10-10.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-6	I	12/6/1995	11.5-12	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-8	I	12/4/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-8	I	12/4/1995	10-10.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-8	I	12/4/1995	11.5-12	—	430	—	<5	<5	<5	11	—	—
MW-10	I	5/1/1987	10	—	ND	—	ND	—	—	—	ND	—
MW18	I	10/1/1996	5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW18	I	10/1/1996	10	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
S-4.5-D1	II	10/19/1994	4.5	<5.0	7	—	<0.0050	<0.0050	0.012	0.0088	—	—
S-5-D2	II	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-5-D3	II	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	0.0057	<0.0050	—	—
S-5-D4	II	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-5-D5	II	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-5-D6	II	10/19/1994	5	<5.0	<1.000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
2-ABCD	III	5/1/1987	Composite	—	124.3	—	<1.0	<1.0	—	10.8	—	8
B-2	III	12/6/1995	11-11.5	—	600	—	<3	<3	4.5	7	—	—
B-4	III	12/5/1995	5.5-6	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-4	III	12/5/1995	10-10.5	—	3.1	—	<0.005	<0.005	0.069	0.018	—	—
B-4	III	12/5/1995	11.5-12	—	1.9	—	<0.005	<0.005	<0.005	0.093	—	—
TP-1A	III	12/2/1986		—	0.35	—	<0.001	0.002	—	0.014	—	—
TP-1C	III	12/2/1986		—	470	—	13	6.4	—	100	—	—
TP-1D	III	12/2/1986		—	360	—	6.1	0.73	—	110	—	—
TP-1E	III	12/2/1986		—	77	—	0.42	0.14	—	5.7	—	—
TP-1F	III	12/2/1986		—	69	—	0.49	0.12	—	5.3	—	—
TP-2A	III	12/2/1986		—	8.4	—	0.031	0.19	—	1.4	—	—
TP-3A	III	12/2/1986		—	<0.050	—	<0.001	<0.001	—	<0.001	—	—
TP-TB	III	12/2/1986		—	110	—	2.3	1.1	—	22	—	—
3-AB	IV	5/1/1987	Composite	—	427.5	—	<1.0	1.6	—	28.8	—	3.9
B-1	IV	12/4/1995	4-4.5	4	—	—	0.021	0.075	0.016	0.054	—	—
B-1	IV	12/4/1995	10-10.5	11	—	—	<0.005	<0.0054	0.019	<0.02	—	—
B-1	IV	12/4/1995	11.5-12	2.9	—	—	<0.005	<0.005	0.0053	<0.02	—	—
S-10-WOT	V	10/19/1994	10	1,400	1,100	—	4.1	5.2	17	89	—	—
S-10-WOTNW	V	10/19/1994	10	5.2	<1,000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
S-10-WOTSW	V	10/19/1994	10	<5.0	<1,000	—	<0.0050	<0.0050	<0.0050	<0.0050	—	—
4B	VI	6/1/1987	9	—	ND	—	0.1	0.03	ND	0.02	—	ND
5B	VI	6/1/1987	9	—	54	—	ND	ND	ND	ND	—	ND
6B	VI	6/1/1987	9	—	ND	—	ND	ND	ND	ND	—	ND
B-11	VI	12/6/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-11	VI	12/6/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-3	VI	12/5/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-3	VI	12/5/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—

TABLE D1
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Vadose Sediment; 0 to 12 feet Below Ground Surface
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 2 of 2)

Sample ID	AREA	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
				<.....mg/Kg.....>								
B-5	VI	12/5/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-5	VI	12/5/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-7	VI	12/5/1995	4-4.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-7	VI	12/5/1995	9-9.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-7	VI	12/5/1995	10.5-11	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-9	VI	12/6/1995	4-4.5	—	1.3	—	0.0068	0.014	0.0085	0.035	—	—
B-9	VI	12/6/1995	10-10.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-9	VI	12/6/1995	11.5-12	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-9	VI	12/6/1995	14.5-15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW19	VI	10/2/1996	5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW19	VI	10/2/1996	10	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW-7	VI	5/1/1987	9	—	ND	—	ND	—	—	—	ND	—
S-10-MW20A	VI	8/16/2001	10	<2	<1	0.059	<0.001	<0.001	<0.001	<0.001	—	NA
S-10-MW20B	VI	8/16/2001	10	<2	<1	0.051	<0.001	<0.001	<0.001	0.0037	—	NA
S-6-MW20B	VI	8/16/2001	6	<2	<1	<0.001	<0.001	<0.001	<0.001	<0.001	—	NA

Notes:

mg/Kg	=	Milligrams per kilogram.
<	=	Analyte not detected at or above the stated laboratory method detection limits.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
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.
Total Lead	=	Total lead analyzed using EPA Method 6010b.
—	=	Not Analyzed.

TABLE D2
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Saturated Sediment, >12 feet Below Graound Surface
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 1 of 2)

Sample ID	LOCATION	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
				<.....mg/Kg.....>								
B-10	I	12/6/1995	12.5-13	—	1600	—	2.5	12	29	110	—	—
B-10	I	12/6/1995	14-14.5	—	<1	—	0.054	0.0058	0.014	0.026	—	—
B-10	I	12/6/1995	15.5-16	—	<1	—	0.0062	<0.005	0.011	0.031	—	—
B-6	I	12/6/1995	14.5-15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-8	I	12/4/1995	14.5-15	—	21000	—	150	820	310	1300	—	—
B-8	I	12/4/1995	17.5-18	—	3400	—	10	72	55	150	—	—
B-8	I	12/4/1995	19-19.5	—	2	—	0.026	0.089	0.029	0.14	—	—
B-8	I	12/4/1995	22-22.5	—	1.5	—	0.011	0.021	0.012	0.056	—	—
B-8	I	12/4/1995	23.5-24	—	160	—	0.99	6.3	2.7	12	—	—
MW-10	I		15	—	ND	—	ND	—	—	—	ND	—
MW18	I	10/1/1996	15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW18	I	10/1/1996	20	—	0.92	—	<0.005	<0.005	<0.005	<0.005	—	—
MW18	I	10/1/1996	25	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW18	I	10/1/1996	30	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW18	I	10/1/1996	35	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW-8	I	5/1/1987	14	—	ND	—	ND	—	—	—	ND	—
B-2	III	12/6/1995	12.5-13	—	37	—	<0.05	0.089	0.88	1.2	—	—
B-2	III	12/6/1995	14-14.5	—	83	—	<0.3	<0.3	1.2	2.6	—	—
B-2	III	12/6/1995	15.5-16	—	<1	—	0.013	<0.005	0.013	0.013	—	—
B-2	III	12/6/1995	17-17.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-4	III	12/5/1995	13-13.5	—	1,800	—	13	6.5	16	16	—	—
B-4	III	12/5/1995	14.5-15.0	—	230	—	<3	<3	3.6	12	—	—
B-4	III	12/5/1995	17.5-18	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-5	III	12/5/1995	12-12.5	—	13	—	<0.3	<0.3	<0.3	<0.3	—	—
B-5	III	12/5/1995	13.5-14	—	6.3	—	0.049	0.02	0.036	0.019	—	—
B-5	III	12/5/1995	16.5-17	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-1	IV	12/4/1995	13-13.5	18	—	—	<0.5	<0.5	1.5	2.5	—	—
B-1	IV	12/4/1995	17.5-18	4.5	—	—	<0.005	<0.005	<0.005	<0.02	—	—
4C	VI	6/1/1987	14	—	ND	—	ND	ND	ND	ND	—	ND
5C	VI	6/1/1987	14	—	ND	—	0.06	0.6	0.1	0.33	—	ND
B-11	VI	12/6/1995	15-15.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-3	VI	12/5/1995	12.5-13	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-3	VI	12/5/1995	13.5-14	—	790	—	<5	<5	9.9	34	—	—
B-3	VI	12/5/1995	16.5-17	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-7	VI	12/5/1995	12-12.5	—	2	—	0.052	0.0051	0.14	0.28	—	—
B-7	VI	12/5/1995	15-15.5	—	1.6	—	<0.005	<0.005	0.04	0.059	—	—
B-7	VI	12/5/1995	18-18.5	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
B-9	VI	12/6/1995	14.5-15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW-12a	VI	5/1/1987	22	—	2	—	ND	—	—	—	ND	—
MW-12a	VI	5/1/1987	25	—	ND	—	ND	—	—	—	ND	—
MW-12a	VI	5/1/1987	27	—	ND	—	ND	—	—	—	ND	—
MW-12b	VI	5/1/1987	14	—	ND	—	ND	—	—	—	ND	—
MW19	VI	10/2/1996	15	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—
MW19	VI	10/2/1996	20	—	<1	—	<0.005	<0.005	<0.005	<0.005	—	—

TABLE D2
CUMULATIVE LABORATORY ANALYSIS OF SOIL SAMPLES
Saturated Sediment, >12 feet Below Graound Surface
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 2 of 2)

Sample ID	LOCATION	Sampling Date	Depth feet (bgs)	TPHd	TPHg	MTBE	B	T	E	X	Total BTEX	Total Lead
				<.....mg/Kg.....>								
MW20A	VI	8/16/2001	20	<2	<1	0.44	<0.001	<0.001	<0.001	<0.001	—	NA
MW-7	VI		14	—	20	—	ND	—	—	—	ND	—

Notes:

mg/Kg	=	Milligrams per kilogram.
<	=	Analyte not detected at or above the stated laboratory method detection limits.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
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.
Total Lead	=	Total lead analyzed using EPA Method 6010b.
—	=	Not Analyzed.

TABLE D3
COC MASS CALCULATIONS - VADOSE SOIL (0-12 ft bgs)
FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

COC	AREA	LENGTH	WIDTH DEPTH	FACTOR	AREA	THICKNESS	VOLUME	SOIL DENSITY	SOIL MASS	SOIL MASS	AVE. CONC.	COC MASS		
		ft	ft		ft2	ft	ft3	lb/ft3	lbs	kg	mg/kg	mg	kg	lbs
	I	70	45	1	3150	5	15750	125	1968750	894886	39.5	3.53E+07	35.35	77.77
	II	30	15	2	900	12	10800	125	1350000	613636	1.58	9.70E+05	0.97	2.13
	III	45	40	1	1800	2	3600	125	450000	204545	140.3	2.87E+07	28.70	63.14
TPHg	IV	20	15	1	300	5	1500	125	187500	85227	427.5	3.64E+07	36.43	80.16
	V	20	10	1	200	5	1000	125	125000	56818	367	2.09E+07	20.85	45.88
	VI	200	170	6350	27650	5	138250	125	17281250	7855114	2.97	2.33E+07	23.33	51.33
	TOTAL											1.46E+08	145.63	320.39
	I	70	45	1	3150	5	15750	125	1968750	894886	0	0.00E+00	0.00	0.00
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	2	3600	125	450000	204545	0	0.00E+00	0.00	0.00
TPHd	IV	20	15	1	300	5	1500	125	187500	85227	5.967	5.08E+05	0.51	1.12
	V	20	10	1	200	5	1000	125	125000	56818	469.2	2.67E+07	26.66	58.65
	VI	200	170	6350	27650	5	138250	125	17281250	7855114	0	0.00E+00	0.00	0.00
	TOTAL											2.72E+07	27.17	59.77
	I	70	45	1	3150	5	15750	125	1968750	894886	0.2295	2.05E+05	0.21	0.45
	II	30	15	2	900	12	10800	125	1350000	613636	0.0025	1.53E+03	0.00	0.00
	III	45	40	1	1800	2	3600	125	450000	204545	1.873	3.83E+05	0.38	0.84
Benzene	IV	20	15	1	300	5	1500	125	187500	85227	0.1315	1.12E+04	0.01	0.02
	V	20	10	1	200	5	1000	125	125000	56818	1.3683	7.77E+04	0.08	0.17
	VI	200	170	6350	27650	5	138250	125	17281250	7855114	0.0069	5.42E+04	0.05	0.12
	TOTAL											7.33E+05	0.73	1.61
	I	70	45	1	3150	5	15750	125	1968750	894886	0.2523	2.26E+05	0.23	0.50
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	2	3600	125	450000	204545	0.8223	1.68E+05	0.17	0.37
Toluene	IV	20	15	1	300	5	1500	125	187500	85227	0.4194	3.57E+04	0.04	0.08
	V	20	10	1	200	5	1000	125	125000	56818	1.735	9.86E+04	0.10	0.22
	VI	200	170	6350	27650	5	138250	125	17281250	7855114	0.0041	3.22E+04	0.03	0.07
	TOTAL											5.61E+05	0.56	1.23
	I	70	45	1	3150	5	15750	125	1968750	894886	0.2523	2.26E+05	0.23	0.50
	II	30	15	2	900	12	10800	125	1350000	613636	0.0046	2.82E+03	0.00	0.01
	III	45	40	1	1800	2	3600	125	450000	204545	1.1435	2.34E+05	0.23	0.51
Ethylbenzene	IV	20	15	1	300	5	1500	125	187500	85227	0.0134	1.14E+03	0.00	0.00
	V	20	10	1	200	5	1000	125	125000	56818	5.6683	3.22E+05	0.32	0.71
	VI	200	170	6350	27650	5	138250	125	17281250	7855114	0	0.00E+00	0.00	0.00
	TOTAL											7.86E+05	0.79	1.73
	I	70	45	1	3150	5	15750	125	1968750	894886	1.1023	9.86E+05	0.99	2.17
	II	30	15	2	900	12	10800	125	1350000	613636	0.0036	2.21E+03	0.00	0.00
	III	45	40	1	1800	2	3600	125	450000	204545	20.1791	4.13E+06	4.13	9.08
Xylenes	IV	20	15	1	300	5	1500	125	187500	85227	7.2185	6.15E+05	0.62	1.35
	V	20	10	1	200	5	1000	125	125000	56818	29.6683	1.69E+06	1.69	3.71
	VI	200	170	6350	27650	5	138250	125	17281250	7855114	0.0047	3.69E+04	0.04	0.08
	TOTAL											7.45E+06	7.45	16.40

TABLE D4
COC MASS CALCULATIONS - SATURATED SOIL (12-24 ft bgs)
FORMER EXXON SERVICE STATION 7-0249
6301 Commerce Boulevard
Rohnert Park, California

COC	AREA	LENGTH	WIDTH DEPTH	FACTOR	AREA	THICKNESS	VOLUME	SOIL DENSITY	SOIL MASS	SOIL MASS	AVE. CONC.	CONT. MASS		
		ft	ft		ft2	ft	ft3	lb/ft3	lbs	kg	mg/kg	mg	kg	lbs
TPHg	I	70	45	1	3150	12	37800	125	4725000	2147727	1636	3.51E+09	3513.68	7730.10
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	12	21600	125	2700000	1227273	217.13	2.66E+08	266.48	586.25
	IV	20	15	1	300	12	3600	125	450000	204545	0	0.00E+00	0.00	0.00
	V	20	10	1	200	12	2400	125	300000	136364	0	0.00E+00	0.00	0.00
	VI	200	170	6350	27650	12	331800	125	41475000	18852273	20	3.77E+08	377.05	829.50
	TOTAL											4.16E+09	4157.21	9145.85
TPHd	I	70	45	1	3150	12	37800	125	4725000	2147727	0	0.00E+00	0.00	0.00
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	12	21600	125	2700000	1227273	0	0.00E+00	0.00	0.00
	IV	20	15	1	300	12	3600	125	450000	204545	11.25	2.30E+06	2.30	5.06
	V	20	10	1	200	12	2400	125	300000	136364	0	0.00E+00	0.00	0.00
	VI	200	170	6350	27650	12	331800	125	41475000	18852273	0	0.00E+00	0.00	0.00
	TOTAL											2.30E+06	2.30	5.06
Benzene	I	70	45	1	3150	12	37800	125	4725000	2147727	10.2255	2.20E+07	21.96	48.32
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	12	21600	125	2700000	1227273	1.512	1.86E+06	1.86	4.08
	IV	20	15	1	300	12	3600	125	450000	204545	0.1263	2.58E+04	0.03	0.06
	V	20	10	1	200	12	2400	125	300000	136364	0	0.00E+00	0.00	0.00
	VI	200	170	6350	27650	12	331800	125	41475000	18852273	0.1471	2.77E+06	2.77	6.10
	TOTAL											2.66E+07	26.62	58.56
Toluene	I	70	45	1	3150	12	37800	125	4725000	2147727	65.031	1.40E+08	139.67	307.27
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	12	21600	125	2700000	1227273	0.8419	1.03E+06	1.03	2.27
	IV	20	15	1	300	12	3600	125	450000	204545	0.1263	2.58E+04	0.03	0.06
	V	20	10	1	200	12	2400	125	300000	136364	0	0.00E+00	0.00	0.00
	VI	200	170	6350	27650	12	331800	125	41475000	18852273	0.2406	4.54E+06	4.54	9.98
	TOTAL											1.45E+08	145.26	319.58
Ethylbenzene	I	70	45	1	3150	12	37800	125	4725000	2147727	28.3415	6.09E+07	60.87	133.91
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	12	21600	125	2700000	1227273	2.1887	2.69E+06	2.69	5.91
	IV	20	15	1	300	12	3600	125	450000	204545	0.7513	1.54E+05	0.15	0.34
	V	20	10	1	200	12	2400	125	300000	136364	0	0.00E+00	0.00	0.00
	VI	200	170	6350	27650	12	331800	125	41475000	18852273	0.7847	1.48E+07	14.79	32.55
	TOTAL											7.85E+07	78.50	172.71
Xylenes	I	70	45	1	3150	12	37800	125	4725000	2147727	112.3049	2.41E+08	241.20	530.64
	II	30	15	2	900	12	10800	125	1350000	613636	0	0.00E+00	0.00	0.00
	III	45	40	1	1800	12	21600	125	2700000	1227273	3.199	3.93E+06	3.93	8.64
	IV	20	15	1	300	12	3600	125	450000	204545	1.255	2.57E+05	0.26	0.56
	V	20	10	1	200	12	2400	125	300000	136364	0	0.00E+00	0.00	0.00
	VI	200	170	6350	27650	12	331800	125	41475000	18852273	2.6684	5.03E+07	50.31	110.67
	TOTAL											2.96E+08	295.69	650.51

WESCO Laboratories

Date: December 04, 1986

Client: Groundwater Technology

Submitted by: Scott Gable

Report to: Bill Channel

WESCO Job #: GWT 8665

Client Job/P.O. #: T/R.P.C. I.D.#

Date collected: 12-02-86

Date submitted: 12-02-86

& type of sample(s): 8 Soil

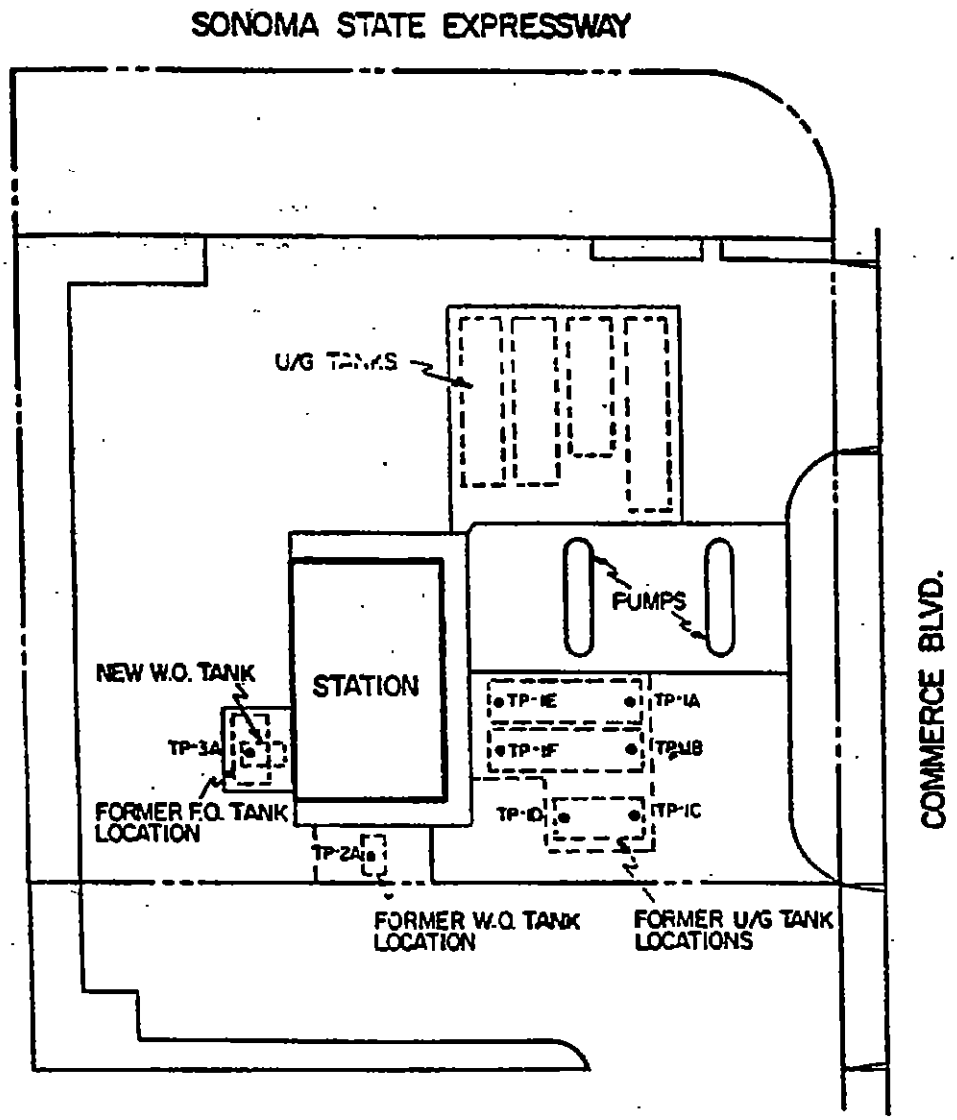
Lab No.	Client ID	Motor Fuel (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Xylene (mg/kg)	Fuel Type	Oil & Grease (mg/kg)
6368	Soil TP-1A	0.35	< 0.001	0.002	0.014	Gasoline	
6369	Soil TP-1B	110	2.3	1.1	22	Gasoline	
6370	Soil TP-1C	470	13	6.4	100	Gasoline	
6371	Soil TP-1D	360	6.1	0.73	110	Gasoline	
6372	Soil TP-1E	77	0.42	0.14	5.7	Gasoline	
6373	Soil TP-1F	69	0.49	0.12	5.3	Gasoline	
6374	Soil TP-3A	< 0.050	< 0.001	< 0.001	< 0.001	Gasoline	
6375	Soil TP-2A	8.4	0.031	0.19	1.4	Gasoline	3400
	METHOD(S):	Note 1					Note 2

NOTES:

Note 1 - EPA Method 5020/8015/8020.
Note 2 - EPA Method 3550/8020.

Analytical Supervisor

000143613



LEGEND
• SAMPLE LOCATION

FIGURE 3
SAMPLE LOCATIONS

000143609

N

0 FEET 30

TEXACO USA / COMMERCE BLVD.
ROHNERT PARK, CALIFORNIA

GROUNDWATER TECHNOLOGY

TABLE 2
SAMPLE ANALYSIS RESULTS - TANK EXCAVATION AND DISPENSER ISLANDS
Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 1 of 1)

Sample Number	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Xylene
Dispenser Area						
S-4.5-D1	<5.0	7.0	<0.0050	<0.0050	0.012	0.0088
S-5-D2	<5.0	<1.000	<0.0050	<0.0050	<0.0050	<0.0050
S-5-D3	<5.0	<1.000	<0.0050	<0.0050	0.0057	<0.0050
S-5-D4	<5.0	<1.000	<0.0050	<0.0050	<0.0050	<0.0050
S-5-D5	<5.0	<1.000	<0.0050	<0.0050	<0.0050	<0.0050
S-5-D6	<5.0	<1.000	<0.0050	<0.0050	<0.0050	<0.0050

Sample	Lead
S-5-D3	<1

Results in parts per million (ppm)
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel fuel
< = Less than the analytical detection limits used

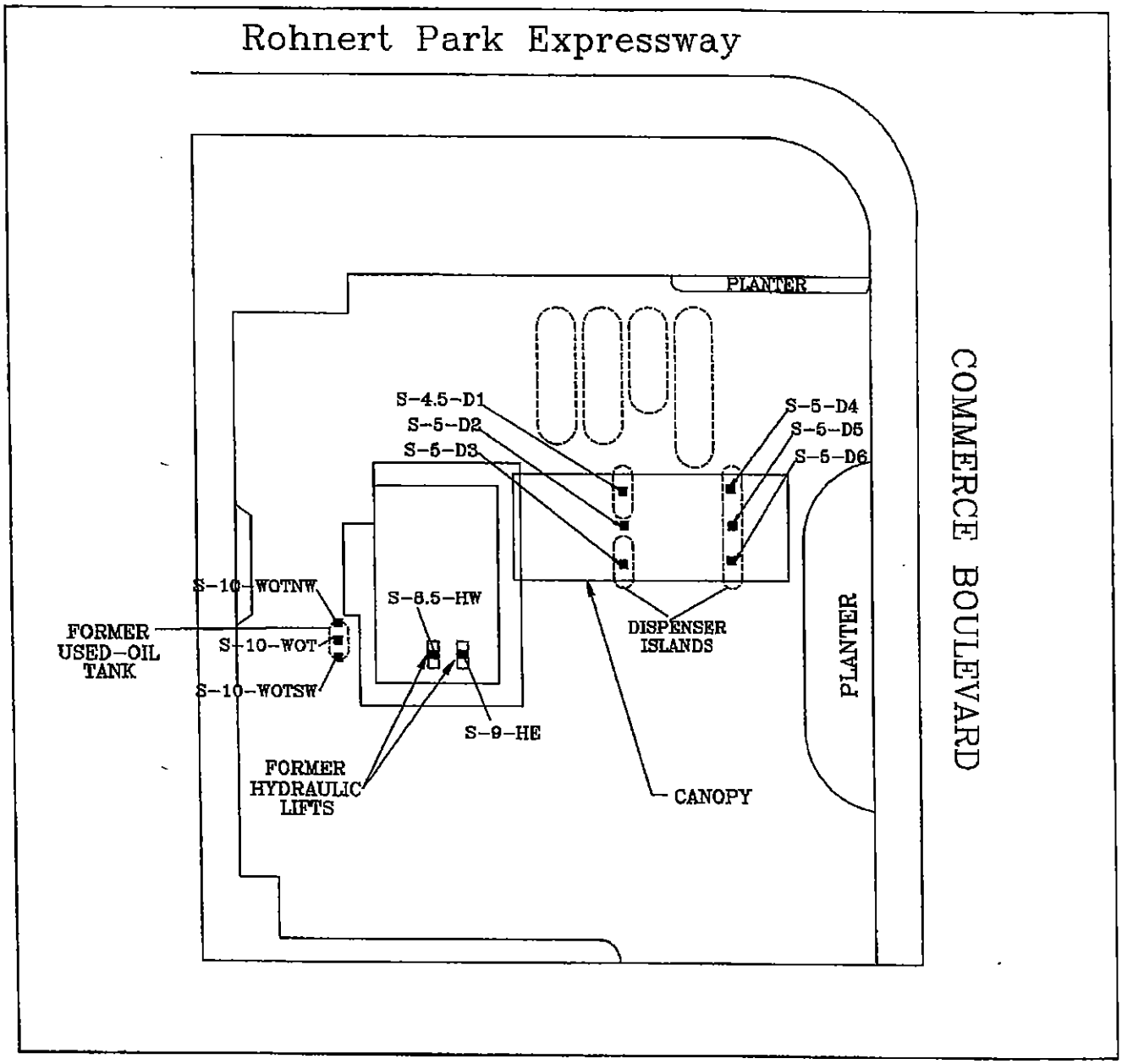
TABLE 3
SAMPLE ANALYSIS RESULTS - USED-OIL TANK AND HOISTS
Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California

Sample Number	TPHg	Benzene	Toluene	Ethyl-benzene	Xylene	TPHd	TOG
Used-Oil Tank							
S-10-WOT	1,100	4.1	5.2	17	89	1,400	14,000
Used-Oil Tank Sidewalls							
S-10-WOTNW	<1.000	<0.0050	<0.0050	<0.0050	<0.0050	5.2	80
S-10-WOTSW	<1.000	<0.0050	<0.0050	<0.0050	<0.0050	<5.0	50
Hoists							
S-9-HE	<1.000	<0.0050	<0.0050	<0.0050	<0.0050	<5.0	<50
S-8.5-HW	<1.000	<0.0050	<0.0050	<0.0050	<0.0050	<5.0	<50

Sample Number	HVOC	Soluble Cadmium	Soluble Chromium	Soluble Lead	Soluble Nickel	Soluble Zinc
Used-Oil Tank						
S-10-WOT	<*	<0.050	<0.1	<1.0	0.9	0.4
Hoists						
S-9-HE	<*	<0.05	<0.1	<1.0	<0.2	<0.1
S-8.5-HW	<*	<0.05	<0.1	<1.0	<0.2	<0.1

Results in parts per million (ppm)

TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
TOG = Total oil and grease
HVOC = Halogenated volatile organic compounds
< = Less than the analytical detection limits used by laboratory
<* = All analyte concentrations less than detection limit



FN 20020002

EXPLANATION

Underground Storage Tanks

S-5-D6 ■ Soil Sample

N

APPROXIMATE SCALE

0 10 20 FEET

SOURCE:
Modified from a map provided by EXXON U.S.A.

ERI ENVIRONMENTAL RESOLUTIONS, INC.

SOIL SAMPLE LOCATION MAP

EXXON STATION 7-0249
6301 Commerce Blvd.
Rohnert Park, California

PROJECT NO. 2002

PLATE 3

DATE: 9/21/94

to 9.5 (MW1-B) feet in well 1; a composite sample comprised of soils collected at 4.5 to 5, 9.5 to 10, 14 to 14.5, and 19 to 19.5 feet (MW2-ABCD) in well 2; and a composite sample obtained at 4.5 to 5 and 9.5 to 10 feet (MW3-AB) in monitoring well 3. All samples were collected below the water table and the samples from wells 2 and 3 consisted mainly of backfill material. Laboratory analysis results indicated hydrocarbon contamination was present in the samples from wells 2 and 3. The highest level of total hydrocarbons, 427.5 ppm, was detected in the composite sample (MW3 - AB) The composite sample MW2 - ABCD showed 124.3 ppm (THC). None of the soils showed significant levels of lead, volatile organics, oil and grease components or PCB's. Soil analysis data is summarized in the table below. The laboratory reports are presented in Appendix III.

TABLE II
LABORATORY SOIL ANALYSIS DATA

Sample Number	THC (ppm)	B (ppm)	T (ppm)	X (ppm)	Other Volatile Organics (ppm)	Lead (total) (ppm)	PCB (ppm)	Waste Oil (ppm)
1-A	<1.0	<1.0	<1.0	<1.0	-	6	-	-
1-B	<1.0	<1.0	<1.0	<1.0	-	6	-	-
2-ABCD	124.3	<1.0	<1.0	10.8	-	8	-	-
3-AB	427.5	<1.0	1.6	28.8	*ND	3.9	*ND	<10

* (Below method detection limits)

TABLE I

Laboratory Soil Analysis Data (ppb)

Sample Number	Sample Depth (feet)	Benzene	Toluene	Ethyl-benzene	Xylene	Lead (organic)
4B	9	100	30	ND	20	ND
4C	14	ND	ND	ND	ND	ND
5B	9	ND	ND	ND	ND	ND
5C	14	60	600	100	330	ND
6B	9	ND	ND	ND	ND	ND

ND = Non Detectable

The laboratory reports are presented in Appendix III.

Groundwater

Analyses of groundwater samples collected on June 24, 1987, indicated that a range of hydrocarbon contamination was present in the monitoring wells. The highest level of groundwater contamination were found in MW-2 at 6495 ppb total BTEX. Benzene levels encountered in MW-2 and MW-5 were 2603 ppb and 904 ppb, respectively (See Figure 5, Dissolved Benzene Map). Hydrocarbon contamination appears to be centered around MW-2 and MW-5 at the southeast corner and slightly downgradient of the former tank pit. Groundwater sample results from MW-3 were not included

TABLE 1

GASOLINE HYDROCARBON CONCENTRATIONS IN SOIL (ppm)

MONITORING WELL	DEPTH (ft)	I.D.	BENZENE	BTEX	TPH
MW-1	*	A	<PQL	<PQL	<PQL
	*	B	<PQL	<PQL	<PQL
MW-2	*	ABCD	<PQL	11	124
MW-3	*	AB	<PQL	29	428
MW-4	9	B	<PQL	<PQL	<PQL
	14	C	<PQL	<PQL	<PQL
MW-5	9	B	<PQL	<PQL	<PQL
	13	C	<PQL	<PQL	54
MW-6	9	B	<PQL	<PQL	<PQL
MW-7	9	B	<PQL	<PQL	<PQL
	14	C	<PQL	<PQL	20
MW-8	14	C	<PQL	<PQL	<PQL
	19	F	<PQL	<PQL	<PQL
	25	J	<PQL	<PQL	<PQL
MW-9	11	C	<PQL	<PQL	<PQL
MW-10	10	D	<PQL	<PQL	<PQL
	12	E	4	81	550
	15	G	<PQL	<PQL	<PQL
MW-11	7	B	<PQL	<PQL	<PQL
	11	D	<PQL	<PQL	<PQL
MW-12b	14	C	<PQL	<PQL	<PQL
MW-12a	22	D	<PQL	<PQL	2
	25	E	<PQL	<PQL	<PQL
	27	F	<PQL	<PQL	<PQL
MW-13b	7	B	<PQL	<PQL	<PQL
	14	C	<PQL	<PQL	240
	21	D	<PQL	<PQL	<PQL
MW-13a	23	F	<PQL	<PQL	<PQL
MW-14a	21	A	<PQL	<PQL	<PQL
	26	B	<PQL	<PQL	<PQL
	31	C	<PQL	<PQL	<PQL
MW-15a	14	E	<PQL	<PQL	<PQL
	17	F	<PQL	<PQL	<PQL
MW-16a	11	D	<PQL	<PQL	<PQL
	15	E	<PQL	<PQL	<PQL
MW-17a	9	B	<PQL	<PQL	<PQL
	18	F	<PQL	<PQL	<PQL

* = composite samples taken
TPH = Total Petroleum Hydrocarbons-as-gasoline
BTEX = benzene, toluene, ethylbenzene, and xylenes
PQL = Practical Quantitation Levels

T4300B2

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Texaco Service Station
6301 Commerce Boulevard at Rohnert Park Expressway
Rohnert Park, California

Sample ID	Sample Depth (feet)	Date Sampled	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)
B-1	4-4.5	12/04/95	NA	0.021	0.075	0.016	0.054
	10-10.5		NA	<0.005	0.0054	0.019	<0.02
	11.5-12		NA	<0.005	<0.005	0.0053	<0.02
	13-13.5		NA	<0.5	<0.5	1.5	2.5
	17.5-18		NA	<0.005	<0.005	<0.005	<0.02
B-2	11-11.5	12/06/95	600	<3	<3	4.5	7.0
	12.5-13		37	<0.05	0.089	0.88	1.2
	14-14.5		83	<0.3	<0.3	1.2	2.6
	15.5-16		<1	0.013	<0.005	0.013	0.013
	17-17.5		<1	<0.005	<0.005	<0.005	<0.005
B-3	4-4.5	12/05/95	<1	<0.005	<0.005	<0.005	<0.005
	10.5-11		<1	<0.005	<0.005	<0.005	<0.005
	12-12.5		<1	<0.005	<0.005	<0.005	0.0072
	13.5-14		790	<5	<5	9.9	34
	16.5-17		<1	0.023	<0.005	0.031	0.050
B-4	5.5-6	12/05/95	<1	<0.005	<0.005	<0.005	<0.005
	10-10.5		3.1	<0.005	<0.005	0.0069	0.018
	11.5-12		1.9	<0.005	<0.005	<0.005	0.0093
	13-13.5		1,800	13	6.5	16	16
	14.5-15		230	<3	<3	3.6	12
	17.5-18		<1	<0.005	<0.005	<0.005	<0.005
B-5	4-4.5	12/05/95	<1	<0.005	<0.005	<0.005	<0.005
	10.5-11		<1	<0.005	<0.005	<0.005	<0.005
	12-12.5		13	<0.3	<0.3	<0.3	<0.3
	13.5-14		6.3	0.049	0.020	0.036	0.019
	16.5-17		<1	<0.005	<0.005	<0.005	<0.005
B-6	5.5-6	12/06/95	<1	<0.005	<0.005	<0.005	<0.005
	10-10.5		<1	<0.005	<0.005	<0.005	<0.005
	11.5-12		<1	<0.005	<0.005	<0.005	<0.005
	14.5-15		<1	<0.005	<0.005	<0.005	<0.005
B-7	4-4.5	12/05/95	<1	<0.005	<0.005	<0.005	<0.005
	9-9.5		<1	<0.005	<0.005	<0.005	<0.005
	10.5-11		<1	<0.005	<0.005	<0.005	<0.005
	12-12.5		2	0.052	0.0051	0.14	0.28
	15-15.5		1.6	<0.005	<0.005	0.040	0.059
	18-18.5		<1	<0.005	<0.005	<0.005	<0.005
B-8	4-4.5	12/04/95	<1	<0.005	<0.005	<0.005	<0.005
	10-10.5		<1	<0.005	<0.005	<0.005	<0.005
	11.5-12		430	<5	<5	<5	11
	14.5-15		21,000	150	820	310	1,300
	17.5-18		3,400	10	72	55	150
	19-19.5		2.0	0.026	0.089	0.029	0.14
	22-22.5		1.5	0.011	0.021	0.012	0.056
	23.5-24		160	0.99	6.3	2.7	12

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Texaco Service Station
6301 Commerce Boulevard at Rohnert Park Expressway
Rohnert Park, California

Sample ID	Sample Depth (feet)	Date Sampled	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)
B-9	4-4.5	12/06/95	1.3	0.0068	0.014	0.0085	0.035
	10-10.5		<1	<0.005	<0.005	<0.005	<0.005
	11.5-12		<1	<0.005	<0.005	<0.005	<0.005
	14.5-15		<1	<0.005	<0.005	<0.005	<0.005
B-10	5-5.5	12/04/95	<1	<0.005	<0.005	<0.005	<0.005
	11-11.5		<1	<0.005	<0.005	<0.005	<0.005
	12.5-13		1,600	2.5	12	29	110
	14-14.5		<1	0.054	0.0058	0.014	0.026
	15.5-16		<1	0.0062	<0.005	0.011	0.031
B-11	4-4.5	12/06/95	<1	<0.005	<0.005	<0.005	<0.005
	10.5-11		<1	<0.005	<0.005	<0.005	<0.005
	15-15.5		<1	<0.005	<0.005	<0.005	<0.005

mg/kg = Milligrams per kilogram
NA = Not analyzed

Table 2
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Diesel, TRPH, and Metals)

Former Texaco Service Station
6301 Commerce Boulevard at Rohnert Park Expressway
Rohnert Park, California

Sample ID	Sample Depth (feet)	Date Sampled	TPH as Diesel (mg/kg)	TRPH (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	VOCs (8240)
B-1	4-4.5	12/04/95	4.0	<50	<0.5	31	13	33	28	*
	10-10.5		11	<50	<0.5	22	8.8	35	41	*
	11.5-12		2.9	<50	<0.5	18	6.5	32	27	*
	13-13.5		18	<50	<0.5	42	13	60	40	*
	17.5-18		4.5	<50	<0.5	41	13	47	53	*

TRPH = Total recoverable petroleum hydrocarbons
mg/kg = Milligrams per kilogram
* All volatile organic compounds (VOCs), other than BTEX, were ND by EPA Method 8240, see Table 1 for BTEX values.

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Texaco Service Station
6301 Commerce Boulevard at Rohnert Park Expressway
Rohnert Park, California

Well Number	Date Sampled	Sample Depth (feet)	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)
MW-18	10/01/96	5	<1	<0.005	<0.005	<0.005	<0.005
		10	<1	<0.005	<0.005	<0.005	<0.005
		15	<1	<0.005	<0.005	<0.005	<0.005
		20	0.92	<0.005	<0.005	<0.005	<0.005
		25	<1	<0.005	<0.005	<0.005	<0.005
		30	<1	<0.005	<0.005	<0.005	<0.005
		35	<1	<0.005	<0.005	<0.005	<0.005
MW-19	10/02/96	5	<1	<0.005	<0.005	<0.005	<0.005
		10	<1	<0.005	<0.005	<0.005	<0.005
		15	<1	<0.005	<0.005	<0.005	<0.005
		20	<1	<0.005	<0.005	<0.005	<0.005

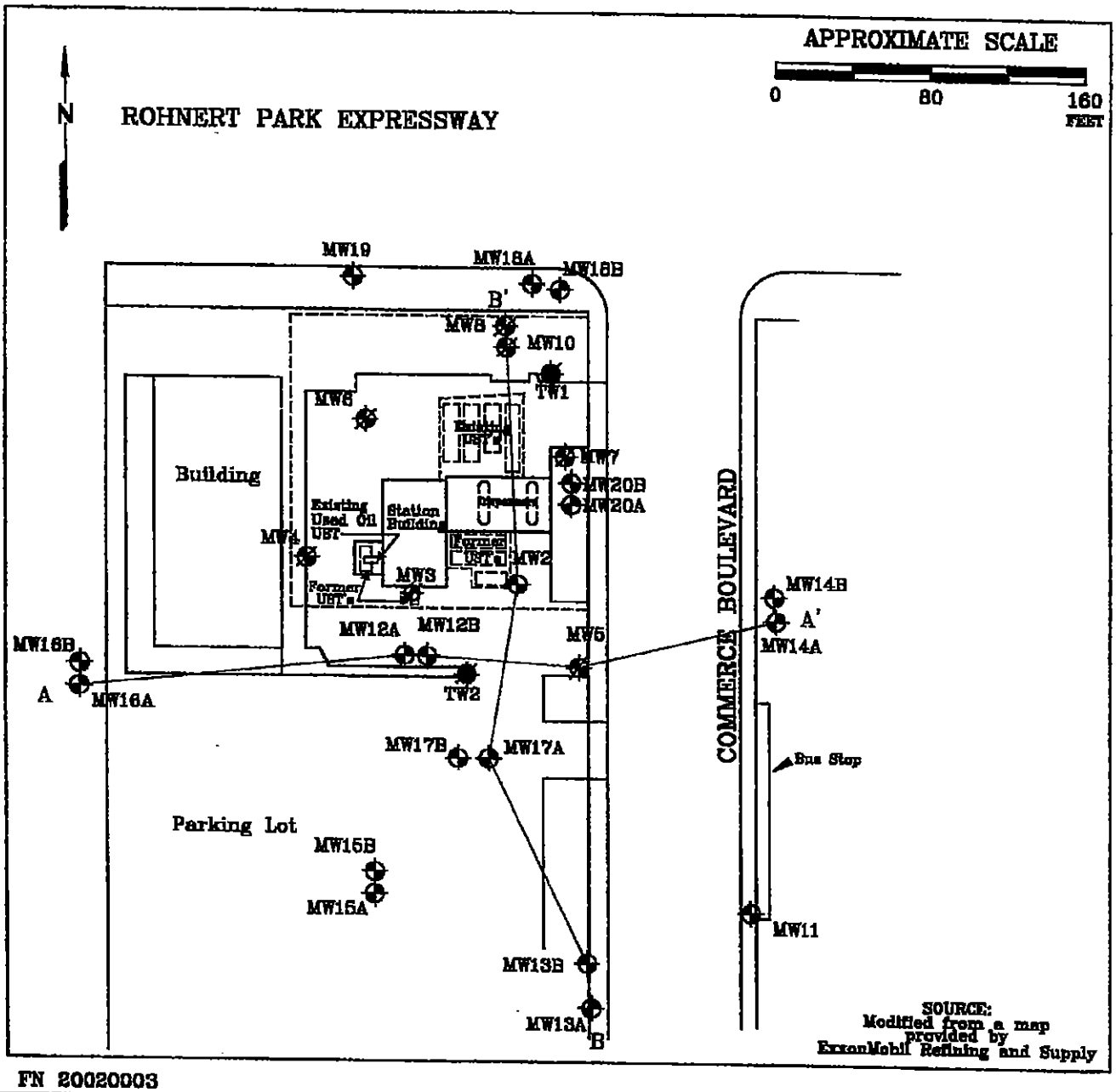
TPH = Total petroleum hydrocarbons
mg/kg = Milligrams per kilogram

TABLE 2
LABORATORY ANALYSIS RESULTS OF SOIL SAMPLES
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 1 of 1)

Sample ID	Sampling Date	TPHd	TPHg	MTBE	B	T	E	X	Total Lead
		<.....mg/Kg.....>							
S-10-MW20A	8/16/01	<2	<1	0.059	<0.001	<0.001	<0.001	<0.001	NA
S-20-MW20A	8/16/01	<2	<1	0.44	<0.001	<0.001	<0.001	<0.001	NA
S-6-MW20B	8/16/01	<2	<1	<0.001	<0.001	<0.001	<0.001	<0.001	NA
S-10-MW20B	8/16/01	<2	<1	0.051	<0.001	<0.001	<0.001	0.0037	NA
STOCKPILE									
SP-1-(1-4) Comp.	8/16/01	8.5	<10	0.017	<0.001	<0.001	<0.001	0.067	3.15

Notes:

mg/Kg	=	Milligrams per kilogram.
<	=	Analyte not detected at or above the stated laboratory method detection limits.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
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.
Total Lead	=	Total lead analyzed using EPA Method 6010b.



FN 20020003

EXPLANATION

MW16B — Upper Zone Groundwater Monitoring Well

B—B' Cross Section Lines

MW18B — Lower Zone Groundwater Monitoring Well

TW2 — Destroyed Groundwater Recovery Well

MW10 — Destroyed Groundwater Monitoring Well

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0249
6801 Commerce Boulevard
Rohnert Park, California

PROJECT NO. 2002

PLATE 3

ATTACHMENT E

VLEACH ANALYSIS

TABLE E1
VLEACH INPUT PARAMETERS
FORMER EXXON SERVICE STATION NO. 7-0249
6301 Commerce Boulevard
Rohnert Park, California

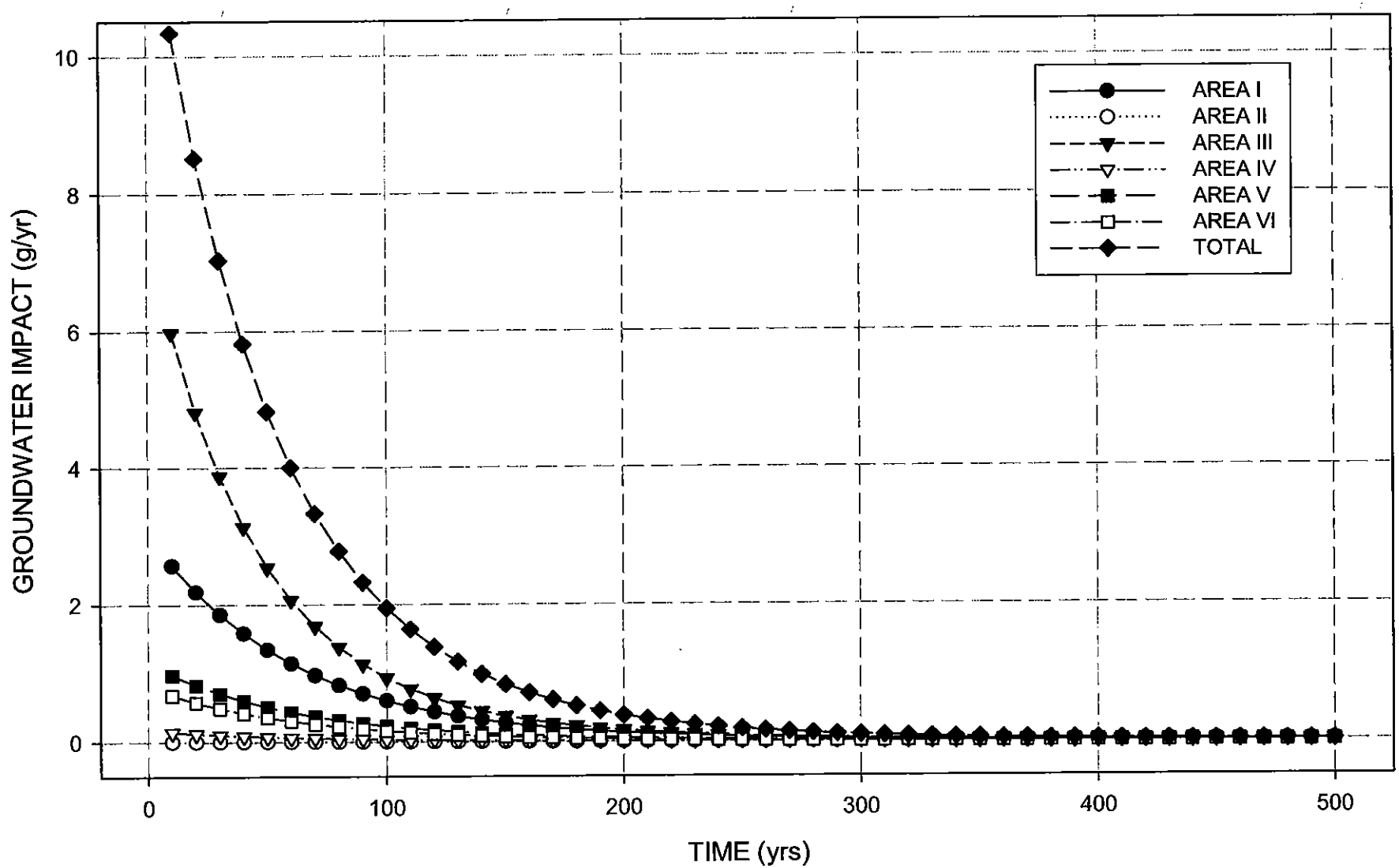
	BENZENE
Polygons	6
Timestep	10
Simulation Time	500
Output Time Interval	10
Profile Time Interval	10
Koc	64.57
Kh	0.221
Aqueous Solubility	1780
Free Air Diffusion Coefficient	0.76

TABLE E2
VLEACH INPUT PARAMETERS
BENZENE
FORMER EXXON SERVICE STATION NO. 7-0249
6301 Commerce Boulevard
Rohnert Park, California

	CELL NO.	Depth Interval	POLYGONS						UNITS
Polygon No.			1	2	3	4	5	6	
Area			1	2	3	4	5	6	ft2
Vertical Cell Dimension			3150	900	1800	300	200	27650	ft
Recharge rate			0.17	0.17	0.17	0.17	0.17	0.17	ft/yr
Dry Bulk Density			1.7	1.7	1.7	1.7	1.7	1.7	g/cm3
Effective Porosity			0.30	0.30	0.30	0.30	0.30	0.30	
Volumetric Water Content			0.15	0.15	0.15	0.15	0.15	0.15	
Soil Organic Carbon Content			0.01	0.01	0.01	0.01	0.01	0.01	
Concentration of Recharge Water			0	0	0	0	0	0	mg/l
Upper Boundary Condition			-1	-1	-1	-1	-1	-1	
Lower Boundary Condition			-1	-1	-1	-1	-1	-1	
Number of Cells			12	12	12	12	12	12	n
Initial Concentration in Cells	1	0-1	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	2	1-2	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	3	2-3	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	4	3-4	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	5	4-5	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	6	5-6	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	7	6-7	0.0	0.0	0.0	0.0	0.0	0.0	ug/kg
	8	7-8	229.5	0.0	0.0	131.5	1368.3	6.9	ug/kg
	9	8-9	229.5	0.0	0.0	131.5	1368.3	6.9	ug/kg
	10	9-10	229.5	0.0	0.0	131.5	1368.3	6.9	ug/kg
	11	10-11	229.5	0.0	1873.0	131.5	1368.3	6.9	ug/kg
	12	11-12	229.5	0.0	1873.0	131.5	1368.3	6.9	ug/kg

```
2002 BENZENE_01
6
10        500       10        10
64.57     0.221     1780      0.76
POLYGON I
3150      1          0.17      1.70      0.30      0.15      0.010
0         -1.0      -1.0
12   Y20
01   07   0.00
08   12   229.5
POLYGON II
900       1          0.17      1.70      0.30      0.15      0.010
0         -1.0      -1.0
12   Y20
01   12   0.00
POLYGON III
1800      1          0.17      1.70      0.30      0.15      0.010
0         -1.0      -1.0
12   Y20
01   10   0.00
11   12   1873
POLYGON IV
300       1           0.17      1.70      0.30      0.15      0.010
0         -1.0      -1.0
12   Y20
01   07   0.00
08   12   131.5
POLYGON V
200       1          0.17      1.70      0.30      0.15      0.010
0         -1.0      -1.0
12   Y20
01   07   0.00
08   12   1368.3
POLYGON VI
27650     1          0.17      1.70      0.30      0.15      0.010
0         -1.0      -1.0
12   Y20
01   07   0.00
08   12   6.9
```

GRAPH E-1
GROUNDWATER IMPACT - BENZENE
FORMER EXXON SERVICE STATION 7-0249
6301 COMMERCE BOULEVARD
ROHNERT PARK, CALIFORNIA



ATTACHMENT F

DISSOLVED-PHASE MASS CALCULATIONS

Using the results of the November 11, 2004 monitoring and sampling event, ERI calculated the estimated mass of dissolved TPHg, BTEX, and MTBE in the upper and lower water bearing zones. First, ERI calculated the volume of water impacted by each constituent. To calculate the volume of water in the upper and lower water bearing zones, ERI assumed a porosity of 35% for both zones and used a depth of 10 feet for the upper water bearing zones (the distance from the average depth to water of the upper zone to the midpoint of the confining layer between the upper and lower water bearing zones) and 13 feet for the lower water bearing zone (the distance from the midpoint of the confining layer between the upper and lower water bearing zones to the maximum depth of the lower water bearing zone). Based on the isoconcentration maps, ERI then calculated the average concentration within the areas defined by the isoconcentration contours, which is considered the representative concentration. The mass of the COC within each contour interval was calculated by multiplying the representative concentration by the volume of water within the contour interval. The total mass was calculated by summing the calculated masses within each contour interval.

TABLE F-1
DISSOLVED PHASE COC MASS CALCULATIONS
Former Exxon Service Station 7-0249
6301 Commerce Boulevard
Rohnert Park, California
(Page 1 of 1)

Upper Zone	Range of Contour Interval	Length * Width*Depth*Porosity	Volume	Area	Water Concentrations in Area	Representative Concentration	Mass in Pounds	Mass in mg
TPHg	> 1000	25*15*10*.35	1313	375	2500 + 1000	1750	0.143045732	64884.45
	100-1000	50*90*10*.35	14437	4500	1000+100	550	0.494512405	224307.05
	10-100	170*75*10*.35	30188	12750	100+10	55	0.103403342	46902.97
	10-1	140*215*10*.35	75162	30100	10+1	5.5	0.025745336	11677.89
	> 10	50*25*10*.35	4375	1250	64.4+10	37.2	0.010135812	4597.53
	10-1	100*60*10*.35	16625	6000	10+1	5.5	0.005694582	2583.02
				36100				
MTBE	> 10	12,000+22,000*10*.35	119000	34000	37.2+93.3+37.1+33.9+10	42.3	0.313490853	142197.06
	1-10	145*90*7+160*75*10+215*60*10*.35	220500	188250	1.6+5.9+1.2+7.8+1	4	0.048063366	21801.18
Benzene	> 10	50*40*10*.35	7000	2000	33.2+10	21.6	0.009416496	4271.25
	10-1	125*140*10*.35	54250	15500	10+1	5.5	0.018582322	8428.80
Toluene	> 1	90*75*.35*10	23625	6750	3.2+1	2.1	0.003089788	1401.50
Ethylbenzene	> 10	30*30*10*.35	3150	900	18.6+10	14.3	0.002805331	1272.48
	10-1	125*130*10*.35	56875	16250	10+1	5.5	0.019481466	8836.64
Xylene	> 1	115*90*10*.35	36225	10350	7+1	4.0	0.009024142	4093.28
Lower Zone								
TPHg	I	45*55*13*.35	8190		59.7+10	35	0.017775598	8062.88
	II	130*130*13*.35	23800	8000	10+1	5.5	0.008152244	3697.80
	III	60*45*13*.35	12285		63.5+10	36.8	0.028117069	12753.69
	IV	130*130*13*.35	64610	16900	10+1	5.5	0.022130946	10038.43
				24900				
MTBE	I	30*110*13*.35	15,015	3,300	100+172	136	0.127175013	57685.62
	II	270*75*13*.35	92138	20250	18.5+63.4+10	30.63	0.1757795	79732.24
	III	185*115*13*.35	96801	21275	1.9+2.6+1.9+1	1.85	0.011152962	5058.90
				44825				
Ethylbenzene	I	120*80*13*.35	43680	43680	3.2+1.0	2.1	0.005712674	2591.23

Notes:

mg/Kg = Milligrams per kilogram.

ATTACHMENT G

REGULATORY CRITERIA

TABLE 2-1: BENEFICIAL USES OF SURFACE WATERS OF THE NORTH COAST REGION

HU/HA/HSA	HYDROLOGIC UNIT/AREA/SUBUNIT/DRAINAGE FEATURE	BENEFICIAL USES																										
		MUN	AGR	IND	PRO	GWR	FRSH	NAV	POW	REC1	REC2	COMM	WARM	COLD	BSA	SAL	WILD	RARE	MAR	MIGR	SPWN	SHELL	EST	AQUA	CUL	FLD	WET	WGE
113.60	Pt Arena Hydrologic Area																											
113.61	Greenwood Creek Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.62	Elk Creek Hydrologic Subarea	P	P	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.63	Alder Creek Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.64	Brush Creek Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E		E	P				
113.70	Garcia River Hydrologic Area	E	E	E	P		E	E	P	E	E	E		E			E	E		E	E		E	P				
113.80	Gualala River Hydrologic Area																											
113.81	North Fork Gualala Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E		E			E	E		E	E			E				
113.82	Rockpile Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E		E	P				
113.83	Buckeye Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
113.84	Wheatfield Fork Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
113.85	Gualala Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E	E		E	E		E	E			P				
113.90	Russian Gulch Hydrologic Area	E	E	E	P	E				E	E	P		E		E	E			E	E			E				
114.00	Russian River Hydrologic Unit																											
114.10	Lower Russian River Hydrologic Area																											
114.11	Guerneville Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E	E		E	E		E	E		E	P				
114.12	Austin Creek Hydrologic Subarea	E	E	E	P	E		E	E	E	E	E	E	E			E	E		E	E			P				
114.20	Middle Russian River Hydrologic Area																											
114.21	Laguna Hydrologic Subarea	P	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.22	Santa Rosa Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E	E		E	E		E	E	P		P				
114.23	Mark West Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.24	Warm Springs Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E	E		E	E		E	E			E				
114.25	Geyserville Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.26	Sulphur Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
114.30	Upper Russian River Hydrologic Area																											
114.31	Ukiah Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E			E	E		E	E	P		P				
114.32	Coyote Valley Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E			E	E		E	E			P				
114.33	Forsythe Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E			E	E		E	E			P				
115.00	Bodega Hydrologic Unit																											
115.10	Salmon Creek Hydrologic Area	E	E	E	P	E		E		E	E	E		E	E		E	E		E	E	P	E	P				
115.20	Bodega Harbor (or Bay) Hydrologic Area	E	E	E	P	E		E		E	E	E		E	E		E	E	E	E	E	E		E				
115.30	Estero Americano Hydrologic Area	E	E	E	P	E		E		E	E	E		E			E	E	E	E	E	P	E	P				
115.40	Estero de San Antonio Hydrologic Area	E	E	E	P	E		E		E	E	E		E			E	E	E	E	E	P	E	P				
	Minor Coastal Streams (not listed above**)	E	P	P	P	P	P	P		P	P	E	P	P	P		E	E	P	P	P		E	P	P			
	Ocean Waters			P	P			E		E	E	E			P		E	E	E	E	E	E		E				
	Bays			P	P			E		P	E	E	P	E	P		E	P	E	E	E	E	P	P	P			
	Saline Wetlands			P		P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	E	P
	Freshwater Wetlands	P	P	P		P	P	P		P	P	P	P	P	P		P	P		P	P	P	P	P	P	P	E	P
	Estuaries	P	P	P	P		P	E	P	E	E	P	P	E	P		E	P	E	E	E	E	E	P	P			
	Groundwater	E	E	E	P																			P	E			

Waterbodies are gouped by hydrologic unit (HU) or hydrologic area (HA)

**Permanent or Intermittent P= Potential E=Existing

*EST use applies only to the estuarine portion of the waterbody as defined in Chapter 2

TABLE 3-2

INORGANIC, ORGANIC, AND FLUORIDE CONCENTRATIONS NOT TO BE EXCEEDED IN DOMESTIC OR MUNICIPAL SUPPLY [1, 2]

Constituent	LIMITING CONCENTRATION IN MILLIGRAMS PER LITER Lower	Optimum	Upper	Maximum Contaminant Level, mg/L
Fluoride [3]				
53.7 and below	0.9	1.2	1.7	2.4
53.8 to 58.3	0.8	1.1	1.5	2.2
58.4 to 63.8	0.8	1.0	1.3	2.0
63.9 to 70.6	0.7	0.9	1.2	1.8
70.7 to 79.2	0.7	0.8	1.0	1.6
79.3 to 90.5	0.6	0.7	0.8	1.4
Inorganic Chemicals				
* Aluminum				1.0
Arsenic				0.05
Barium				1.0
Cadmium				0.01
Chromium				0.05
Lead				0.05
Mercury				0.002
Nitrate-N (as NO_3)				45
Selenium				0.01
Silver				0.05
Organic Chemicals				
(a) Chlorinated Hydrocarbons				
Endrin				0.0002
Lindane				0.004
Methoxychlor				0.1
Toxaphene				0.005
(b) Chlorophenoxys				
2,4-D				0.1
2,4,5-TP (Silvex)				0.01
(c) Synthetics				
Atrazine				0.003
Bentazon				0.018
Benzene				0.001
Carbon Tetrachloride				0.0005
Carbofuran				0.018
Chlordane				0.0001

TABLE 3-2 (CONTINUED)

INORGANIC, ORGANIC, AND FLUORIDE CONCENTRATIONS NOT TO BE EXCEEDED IN DOMESTIC OR MUNICIPAL SUPPLY [1, 2]

Constituent	LIMITING CONCENTRATION IN MILLIGRAMS PER LITER Maximum Contaminant Level, mg/L
(c) Synthetics (cont'd.)	
1,2-Dibromo-3-chloropropane	0.0002
1,4-Dichlorobenzene	0.005
1,1-Dichloroethane	0.005
1,2-Dichloroethane	0.0005
cis-1,2-Dichloroethylene	0.006
trans-1,2-Dichloroethylene	0.01
1,1-Dichloroethylene	0.006
1,2-Dichloropropane	0.005
1,3-Dichloropropene	0.0005
Di(2-ethylhexyl)phthalate	0.004
* Ethylbenzene	0.680
Ethylene Dibromide	0.00002
Glyphosate	0.7
Heptachlor	0.00001
Heptachlor epoxide	0.00001
Molinate	0.02
Monochlorobenzene	0.030
Simazine	0.010
1,1,2,2-Tetrachloroethane	0.001
Tetrachloroethylene	0.005
* Thiobencarb	0.07
1,1,1-Trichloroethane	0.200
1,1,2-Trichloroethane	0.032
Trichloroethylene	0.005
Trichlorofluoromethane	0.15
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2
Vinyl Chloride	0.0005
* Xylenes [4]	1.750

1 Values included in this table have been summarized from California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Sections 64435 (Tables 2 and 3) and 64444.5 (Table 5).

2 The values included in this table are maximum contaminant levels for the purposes of groundwater and surface water discharges and cleanup. Other water quality objectives (e.g., taste and odor thresholds or other secondary MCLs) and policies (e.g., State Water Board "Policy With Respect to Maintaining High Quality Waters in California") that are more stringent may apply.

3 Annual Average of Maximum Daily Air Temperature, °F Based on temperature data obtained for a minimum of five years. The average concentration of fluoride during any month, if added, shall not exceed the upper concentration. Naturally occurring fluoride concentration shall not exceed the maximum contaminant level.

4 Maximum Contaminant Level is for either a single isomer or the sum of the isomers.

* Constituents marked with an * also have taste and odor thresholds that are more stringent than the MCL listed. Taste and odor thresholds have also been developed for other constituents not listed in this table.