EXXON COMPANY, U.S.A.
P.O. BOX 4032 . CONCORD, CA 94524-4032

ENVIRONMENTAL ENGINEERING
MARLA D. GUENSLER
SENIOR ENVIRONMENTAL ENGINEER
(510) 246-8776
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October 24, 1996

Ms. Juliet Shin
Alameda County Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RE: Exxon RAS #7-0104/1725 Park Street, Alameda, CA

Dear Ms. Shin:

Attached for your review and comment is a report entitled ***Quarterly Ground Water Monitoring Report, Third Quarter 1996*** for the above referenced site. This report, prepared by Delta Environmental Consultants, Inc., (Delta) of Rancho Cordova, California, details the results of the July 1996 ground water monitoring and sampling event.

Please contact me at (510) 246-8776 if you have any questions or comments.

Sincerely,

Marla D. Guensler
Senior Engineer

attachment: Delta Quarterly Report dated September 5, 1996

cc: w/attachment:
Mr. Richard Hiett - San Francisco Bay RWQCB

w/o attachment:
Mr. Richard Munsch - Delta

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670
916/638-2085
FAX: 916/638-8385

September 5, 1996

MTBE - 6200 on wells MW-2, 5(?), 11
(Sampl. just done on 10/22/96)

Ms. Marla Guensler
Exxon Company, U.S.A.
2300 Clayton Road, Suite 640
Concord, California 94520

Subject: *Quarterly Ground Water Monitoring Report, Third Quarter 1996*
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
Delta Project No. D094-832

Dear Ms. Guensler:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Exxon Company, U.S.A. (Exxon), to conduct quarterly ground water monitoring and remediation activities at Exxon Service Station No. 7-0104, located at 1725 Park Street, Alameda, California. This letter report presents the results of quarterly ground water monitoring and data collection conducted on July 26, 1996. The location of the site is shown in Figure 1 and site features are illustrated in Figure 2. Work conducted at the site by Delta was performed in accordance with the field methods and procedures described in Enclosure A.

Ground Water Elevations, Flow Direction, and Hydraulic Gradient

Ground water was measured in each of the twelve monitoring wells (MW-1 through MW-12) and the five recovery wells (EW-1 through EW-5). Ground water depths in the wells ranged from 5.90 (MW-12) to 16.50 (EW-2) feet below the top of the well casings. Ground water elevations in the monitoring wells decreased approximately 1.3 feet from the previous measurements collected in April 1996. Cumulative ground water level measurements collected by Delta are presented in Table 1. Historical ground water monitoring and sampling data collected by previous consultants (June 7, 1988 through February 25, 1994) are presented in Enclosure B.

A water table contour map constructed from the ground water level measurements recorded on July 26, 1996, is included as Figure 3. The contour map indicates an induced ground water flow direction toward recovery wells EW-1 through EW-3, and EW-5. The ground water extraction system has induced a hydraulic gradient of approximately 0.2 in the vicinity of the recovery wells. Away from the recovery wells, previous data indicates the ground water flow direction to be towards the east.

Subjective Analysis

Liquid-phase petroleum hydrocarbons were not observed in any monitoring wells during the third quarter site visit.

Analytical Results

Ground water samples were collected from each of the wells on July 26, 1996, and submitted to Sequoia Analytical (a California-certified laboratory) for analyses of benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE) by EPA Method 8020, and total petroleum hydrocarbons (TPH) as gasoline by EPA Method 8015 Modified. Cumulative analytical results from samples collected by Delta are presented in Table 2. A summary of historical analytical results for ground water samples collected by previous consultants (June 7, 1988 through February 25, 1994) is presented in Enclosure B.

The analytical results for the third quarter 1996 monitoring event reported that detectable concentrations of TPH as gasoline ranged from 140 micrograms per liter (μg/L) in MW-10 to 40,000 μg/L (MW-2). Detectable concentrations of benzene ranged from 8.0 μg/L (MW-1) to 10,000 μg/L (MW-2). Detectable MTBE concentrations ranged from 23 μg/L (MW-1) to 140,000 μg/L (MW-5). Benzene was not detected above the laboratory detection limits in the ground water samples obtained from monitoring wells MW-8, MW-9, MW-10, MW-12, and EW-1.

A dissolved benzene concentration map based on analytical results for ground water samples collected on July 26, 1996, is included as Figure 4. A copy of the laboratory analytical report and chain-of-custody documentation is presented in Enclosure C.

Ground Water Remediation System Status

The ground water remediation system is sampled on a monthly basis, as required in the discharge permit issued by the East Bay Municipal Utility District (EBMUD). Influent and effluent water samples are collected for analyses of BTEX by EPA Method 5030/8020, and TPH as gasoline by EPA Method 8015 Modified. As per the revised discharge permit dated February 14, 1995, the ground water remediation system analytical sampling results are presented in semi-annual reports to EBMUD.

Future Work

The next quarterly monitoring event for this site is scheduled for October 1996. Delta anticipates continuing operation of the ground water remediation system.

Delta recommends that copies of this report be forwarded to the following agencies:

Mr. Richard Hiett
Regional Water Quality Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Mr. Larry Seto
Alameda County Department of Environmental Health
Hazardous Material Division
80 Swan Way, Room 200
Oakland, California 94621

Mr. Safa Toma
East Bay Municipal Utility District
Post Office Box 24055
Oakland, California 94621

Remarks/Signatures

The interpretations contained in this report represent our professional opinions, and are based in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Richard Munsch at (916) 638-2085.

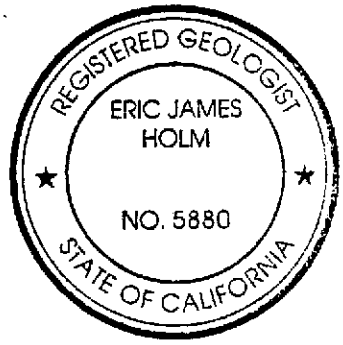
Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

William L. Brattain
Project Engineer

Richard D. Munsch
Project Manager

Eric J. Holm, R.G.
California Registered Geologist No. 5880



WLB (LRP002.832)
Enclosures

TABLE 1

GROUND WATER LEVEL MEASUREMENTS

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Top of Riser Elevation (ft)[a]	Depth to Water (ft)	Ground Water Elevation (ft)	Comments
MW-1	09/12/94	17.35	7.11	10.24	No LPH[b] or Sheen
	10/01/94		7.44	9.91	No LPH or Sheen
	01/13/95		5.13	12.22	No LPH or Sheen
	04/27/95		6.57	10.78	No LPH or Sheen
	08/03/95		7.46	9.89	No LPH or Sheen
	10/17/95		7.67	9.68	No LPH or Sheen
	01/24/96		6.52	10.83	No LPH or Sheen
	04/24/96		5.95	11.40	No LPH or Sheen
	07/26/96		7.60	9.75	No LPH or Sheen
MW-2	09/12/94	16.67	6.71	9.96	No LPH or Sheen
	10/01/94		7.22	9.45	Sheen
	01/13/95		4.46	12.22[c]	LPH Thickness 0.01
	04/27/95		6.92	9.75	No LPH or Sheen
	08/03/95		6.96	9.71	No LPH or Sheen
	10/17/95		7.83	8.84	No LPH or Sheen
	01/24/96		6.45	10.22	No LPH or Sheen
	04/24/96		6.00	10.67	No LPH or Sheen
	07/26/96		7.14	9.53	No LPH or Sheen
MW-3	09/12/94	17.11	6.58	10.53	No LPH or Sheen
	10/01/94		6.85	10.26	No LPH or Sheen
	01/13/95		5.27	11.84	No LPH or Sheen
	04/27/95		6.05	11.06	No LPH or Sheen
	08/03/95		6.71	10.40	No LPH or Sheen
	10/17/95		7.46	9.65	No LPH or Sheen
	01/24/96		5.83	11.28	No LPH or Sheen
	04/24/96		5.38	11.73	No LPH or Sheen
	07/26/96		6.80	10.31	No LPH or Sheen
MW-4	09/12/94	17.34	6.80	10.54	No LPH or Sheen
	10/01/94		7.09	10.25	No LPH or Sheen
	01/13/95		4.66	12.68	No LPH or Sheen
	04/27/95		5.54	11.80	No LPH or Sheen
	08/03/95		6.92	10.42	No LPH or Sheen
	10/17/95		7.50	9.84	No LPH or Sheen
	01/24/96		5.81	11.53	No LPH or Sheen
	04/24/96		5.44	11.90	No LPH or Sheen
	07/26/96		7.03	10.31	No LPH or Sheen

TABLE 1-Continued

GROUND WATER LEVEL DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Top of Riser Elevation (ft)[a]	Depth to Water (ft)	Ground Water Elevation (ft)	Comments
MW-5	09/12/94	16.71	7.12	9.59	No LPH or Sheen
	10/01/94		7.06	9.65	Sheen
	01/13/95		4.85	11.88[c]	LPH Thickness 0.02
	04/27/95		6.51	10.20	No LPH or Sheen
	08/03/95		7.24	9.47	No LPH or Sheen
	10/17/95		7.80	8.91	No LPH or Sheen
	01/24/96		6.66	10.05	No LPH or Sheen
	04/24/96		5.80	10.91	No LPH or Sheen
	07/26/96		7.67	9.04	No LPH or Sheen
MW-6	09/12/94	17.56	6.88	10.68	No LPH or Sheen
	10/01/94		7.15	10.41	No LPH or Sheen
	01/13/95		4.80	12.76	No LPH or Sheen
	04/27/95		6.14	11.42	No LPH or Sheen
	08/03/95		6.83	10.73	No LPH or Sheen
	10/17/95		7.66	9.90	No LPH or Sheen
	01/24/96		5.86	11.70	No LPH or Sheen
	04/24/96		5.39	12.17	No LPH or Sheen
	07/26/96		6.97	10.59	No LPH or Sheen
MW-7	09/12/94	17.12	6.43	10.69	No LPH or Sheen
	10/01/94		6.71	10.41	No LPH or Sheen
	01/13/95		4.29	12.83	No LPH or Sheen
	04/27/95		5.00	12.12	No LPH or Sheen
	08/03/95		6.53	10.59	No LPH or Sheen
	10/17/95		7.23	9.89	No LPH or Sheen
	01/24/96		5.26	11.86	No LPH or Sheen
	04/24/96		5.06	12.06	No LPH or Sheen
	07/26/96		6.62	10.50	No LPH or Sheen
MW-8	09/12/94	16.33	6.42	9.91	No LPH or Sheen
	10/01/94		6.62	9.71	No LPH or Sheen
	01/13/95		5.25	11.08	No LPH or Sheen
	04/27/95		6.00	10.33	No LPH or Sheen
	08/03/95		6.28	10.05	No LPH or Sheen
	10/17/95		6.93	9.40	No LPH or Sheen
	01/24/96		5.71	10.62	No LPH or Sheen
	04/24/96		5.52	10.81	No LPH or Sheen
	07/26/96		6.27	10.06	No LPH or Sheen

TABLE 1-Continued

GROUND WATER LEVEL DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Top of Riser Elevation (ft)[a]	Depth to Water (ft)	Ground Water Elevation (ft)	Comments
MW-9	09/12/94	15.62	6.84	8.78	No LPH or Sheen
	10/01/94		6.97	8.65	No LPH or Sheen
	01/13/95		6.18	9.44	No LPH or Sheen
	04/27/95		6.58	9.04	No LPH or Sheen
	08/03/95		6.72	8.90	No LPH or Sheen
	10/17/95		7.09	8.53	No LPH or Sheen
	01/24/96		6.46	9.16	No LPH or Sheen
	04/24/96		6.43	9.19	No LPH or Sheen
	07/26/96		6.80	8.82	No LPH or Sheen
MW-10	09/12/94	16.79	7.04	9.75	No LPH or Sheen
	10/01/94		7.30	9.49	No LPH or Sheen
	01/13/95		6.04	10.75	No LPH or Sheen
	04/27/95		6.66	10.13	No LPH or Sheen
	08/03/95		7.23	9.56	No LPH or Sheen
	10/17/95		7.93	8.86	No LPH or Sheen
	01/24/96		6.43	10.36	No LPH or Sheen
	04/24/96		6.42	10.37	No LPH or Sheen
	07/26/96		7.47	9.32	No LPH or Sheen
MW-11	10/17/95	18.04	7.72	10.32	No LPH or Sheen
	01/24/96		5.97	12.07	No LPH or Sheen
	04/24/96		5.84	12.20	No LPH or Sheen
	07/26/96		6.98	11.06	No LPH or Sheen
MW-12	10/17/95	16.30	6.38	9.92	No LPH or Sheen
	01/24/96		4.86	11.44	No LPH or Sheen
	04/24/96		4.46	11.84	No LPH or Sheen
	07/26/96		5.90	10.40	No LPH or Sheen
EW-1	09/12/94	16.22	6.13	10.09	No LPH or Sheen
	10/01/94		7.63	8.59	No LPH or Sheen
	01/13/95		11.46	4.76	No LPH or Sheen
	04/27/95		15.47	0.75	No LPH or Sheen
	08/03/95		13.85	2.37	No LPH or Sheen
	10/17/95		8.05	8.17	No LPH or Sheen
	01/24/96		11.07	5.15	No LPH or Sheen
	04/24/96		6.20	10.02	No LPH or Sheen
	07/26/96		13.93	2.29	No LPH or Sheen

TABLE 1-Continued

GROUND WATER LEVEL DATA

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Top of Riser Elevation (ft)[a]	Depth to Water (ft)	Ground Water Elevation (ft)	Comments
EW-2	09/12/94	16.05	6.09	9.96	Sheen
	10/01/94		7.32	8.73	Sheen
	01/13/95		14.38	1.67	No LPH or Sheen
	04/27/95		15.23	0.82	No LPH or Sheen
	08/03/95		7.19	8.86	No LPH or Sheen
	10/17/95		18.97	-2.92	No LPH or Sheen
	01/24/96		20.32	-4.27	No LPH or Sheen
	04/24/96		9.46	6.59	No LPH or Sheen
	07/26/96		16.50	-0.45	No LPH or Sheen
EW-3	09/12/94	16.02	6.12	9.9	No LPH or Sheen
	10/01/94		10.52	5.5	No LPH or Sheen
	01/13/95		18.13	-2.11	No LPH or Sheen
	04/27/95		23.07	-7.05	No LPH or Sheen
	08/03/95		22.90	-6.88	No LPH or Sheen
	10/17/95		22.87	-6.85	No LPH or Sheen
	01/24/96		20.97	-4.95	No LPH or Sheen
	04/24/96		18.10	-2.08	No LPH or Sheen
	07/26/96		13.14	2.88	No LPH or Sheen
EW-4	09/12/94	16.61	5.69	10.92	No LPH or Sheen
	10/01/94		7.90	8.71	No LPH or Sheen
	01/13/95		11.36	5.25	No LPH or Sheen
	04/27/95		16.30	0.31	No LPH or Sheen
	08/03/95		6.45	10.16	No LPH or Sheen
	10/17/95		15.89	0.72	No LPH or Sheen
	01/24/96		6.03	10.58	No LPH or Sheen
	04/24/96		4.97	11.64	No LPH or Sheen
	07/26/96		6.54	10.07	No LPH or Sheen
EW-5	09/12/94	16.51	6.30	10.21	No LPH or Sheen
	10/01/94		11.83	4.68	No LPH or Sheen
	01/13/95		12.54	3.97	No LPH or Sheen
	04/27/95		13.11	3.40	No LPH or Sheen
	08/03/95		11.99	4.52	No LPH or Sheen
	10/17/95		13.43	3.08	No LPH or Sheen
	01/24/96		9.72	6.79	No LPH or Sheen
	04/24/96		8.13	8.38	No LPH or Sheen
	07/26/96		10.00	6.51	No LPH or Sheen

[a] Elevation of top of well casing in relative to mean sea level (RESNA Industries, Inc., February 10, 1994).
[b] Liquid-phase petroleum hydrocarbons.
[c] Adjusted ground water elevations, based on the specific gravity of gasoline as 0.80.

TABLE 2

GROUND WATER SAMPLE RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH[a] as gasoline	MTBE[b]
MW-1	09/12/94	200	1.9	210	6.6	1,600[c]	NA[d]
	10/01/94	200	<0.5	160	6.6	1,400[c]	NA
	01/13/95	410[e]	17	280[e]	89	2,100[c]	NA
	04/27/95	460	41	340	270	4,700	NA
	08/03/95	140	<5.0	160	9.9	1,900	30
	10/17/95	6.2	<0.5	13	0.75	280	5.5
	01/24/96	21	1.4	38	3.1	740	440
	04/24/96	200	110	1,000	740	7,800	250
	07/26/96	8.0	0.99	26	1.0	620	23
MW-2	09/12/94	4,400	120	1,700	2,100	31,000[c]	NA
	10/01/94	4,500	250	1,800	2,400	45,000[c]	NA
	01/13/95	NS[f]	NS	NS	NS	NS	NA
	04/27/95	7,000	840	2,400	3,400	44,000	NA
	08/03/95	4,600	170	1,600	1,100	30,000	37,000
	10/17/95	5,400	190	2,000	1,500	45,000	14,000
	01/24/96	5,000	810	2,200	2,200	30,000	4,100
	04/24/96	8,700	410	2,200	2,000	34,000	22,000
	07/26/96	10,000	<200	1,800	760	40,000	18,000
MW-3	09/12/94	580	8.0	340	100	3,100[c]	NA
	10/01/94	640	11	230	130	3,800[c]	NA
	01/13/95	690	24	210	130	3,800[c]	NA
	04/27/95	940	35	810	530	7,500	NA
	08/03/95	380	<5.0	140	45	1,900	24
	10/17/95	950	29	230	190	6,100	<5.0
	01/24/96	730	15	190	110	3,000	<100
	04/24/96	1,200	130	1,000	1,400	11,000	<100
	07/26/96	800	16	24	56	2,500	250
MW-4	09/12/94	900	57	310	490	5,200[c]	NA
	10/01/94	1,200	66	360	380	9,100[c]	NA
	01/13/95	1,300	200	550	1,000	25,000[c]	NA
	04/27/95	650	130	350	590	5,900	NA
	08/03/95	1,000	<12	170	140	4,200	5,700
	10/17/95	1,300	30	360	380	6,900	1,700
	01/24/96	1,900	46	290	330	6,300	830
	04/24/96	1,800	<20	190	130	5,000	1,600
	07/26/96	1,700	<25	340	280	9,100	1,200

TABLE 2-Continued

GROUND WATER SAMPLE RESULTS
Concentrations in micrograms per liter (µg/L)

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH[a] as gasoline	MTBE[b]	
MW-5	09/12/94	2,300	17	320	230	10,000[c]	NA	
	10/01/94	2,300	19	220	200	11,000[c]	NA	
	01/13/95	NS	NS	NS	NS	NS	NA	
	04/27/95	2,200	72	540	350	14,000	NA	
	08/03/95	2,100	<100	210	<100	<10,000	39,000	
	10/17/95	1,800	14	240	170	13,000	38,000	2x
	01/24/96	2,400	79	340	190	10,000	20,000	
	04/24/96	3,700	120	520	170	13,000	33,000	
	07/26/96	3,400	53	280	76	15,000	140,000	
MW-6	09/12/94	150	4.4	170	85	1,500[c]	NA	
	10/01/94	120	<0.5	99	38	87[c]	NA	
	01/13/95	710	220	780	1,100	9,900[c]	NA	
	04/27/95	340	40	460	320	3,900	NA	
	08/03/95	89	<2.5	110	63	1,100	65	
	10/17/95	410	74	850	110	8,500	<5.0	4x
	01/24/96	560	1,500	2,200	7,500	31,000	<5.0	
	04/24/96	460	570	1,400	3,300	15,000	280	
	07/26/96	270	660	1,600	5,500	27,000	1,300	
MW-7	09/12/94	490	50	280	70	6,000[c]	NA	
	10/01/94	940	670	310	160	8,900[c]	NA	
	01/13/95	590	780	970	4,200	20,000[c]	NA	
	04/27/95	410	32	410	230	8,800	NA	
	08/03/95	390	<50	290	<50[g]	4,900	17,000	
	10/17/95	530	26	240	25	6,700	17,000	2x
	01/24/96	2,000	390	350	230	9,300	60,000	
	04/24/96	2,400	850	150	130	9,000	360,000	
	07/26/96	530	25	60	46	4,800	86,000	
MW-8	09/12/94	<0.5	<0.5	<0.5	<0.5	<50[c]	NA	
	10/01/94	<0.5	<0.5	<0.5	<0.5	<50[c]	NA	
	01/13/95	<0.5	<0.5	<0.5	<0.5	<50[c]	NA	
	04/27/95	<0.5	<0.5	<0.5	<0.5	<50	NA	
	08/03/95	<0.5	<0.5	<0.5	<0.5	<50	<2.5	
	10/17/95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	dup
	01/24/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	
	04/24/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	
	07/26/96	<0.5	<0.5	<0.5	<0.5	<50	230	

TABLE 2-Continued

GROUND WATER SAMPLE RESULTS
Concentrations in micrograms per liter (μg/L)

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH[a] as gasoline	MTBE[b]
MW-9	09/12/94	<0.5	<0.5	<0.5	<0.5	<50[c]	NA
	10/01/94	<0.5	<0.5	<0.5	<0.5	<50[c]	NA
	01/13/95	<0.5	<0.5	<0.5	<0.5	<50[c]	NA
	04/27/95	<0.5	<0.5	<0.5	<0.5	<50	NA
	08/03/95	<0.5	<0.5	<0.5	<0.5	<50	<2.5
	10/17/95	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	01/24/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	04/24/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	07/26/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0
MW-10	09/12/94	<0.5	<0.5	1.6	<0.5	71[c]	NA
	10/01/94	1.1	<0.5	2.8	0.73	330[c]	NA
	01/13/95	<0.5	<0.5	<0.5	<0.5	90[c]	NA
	04/27/95	<0.5	<0.5	5.4	1.3	140	NA
	08/03/95	<0.5	<0.5	<0.5	<0.5	150	<2.5
	10/17/95	<0.5	<0.5	<0.5	<0.5	<50	95
	01/24/96	1.6	0.52	62	28	760	24
	04/24/96	<0.5	<0.5	7.1	<0.5	110	6.8
	07/26/96	<0.5	<0.5	12	0.86	140	<5.0
MW-11	10/17/95	3,800	150	950	4,500	34,000	890
	01/24/96	3,800	1,200	2,100	9,800	44,000	<500
	04/24/96	2,900	1,400	1,700	8,300	34,000	720
	07/26/96	4,600	4,200	950	9,500	39,000	800
MW-12	10/17/95	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	01/24/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0
	04/24/96	<0.5	0.68	<0.5	0.72	<50	<5.0
	07/26/96	<0.5	<0.5	<0.5	<0.5	<50	<5.0
EW-1	09/12/94	40	<0.5	10	5.4	400[c]	NA
	10/01/94	<0.5	4.4	30	11	3,400[c]	NA
	01/13/95	40	<0.5	12	16	680[c]	NA
	04/27/95	NS	NS	NS	NS	NS	NA
	08/03/95	2.7	<1.2	<1.2	<1.2	<125	590
	10/17/95	220	<0.5	160	36	3,600	400
	01/24/96	4.3	<0.5	1.3	0.53	64	260
	04/24/96	130	2.3	35	2.1	740	3,000
	07/26/96	<0.5	<0.5	<0.5	<0.5	<50	960

TABLE 2-Continued

GROUND WATER SAMPLE RESULTS
Concentrations in micrograms per liter (μg/L)

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH[a] as gasoline	MTBE[b]
EW-2	09/12/94	2,000	79	180	290	8,800[c]	NA
	10/01/94	1,400	6.7	700	310	9,500[c]	NA
	01/13/95	930	270	21	280	5,700[c]	NA
	04/27/95	NS	NS	NS	NS	NS	NA
	08/03/95	170	27	36	64	830	1,600
	10/17/95	<0.5	<0.5	<0.5	5.1	180	3,600
	01/24/96	290	82	14	170	1,700	6,400
	04/24/96	670	200	110	490	3,500	7,300
	07/26/96	250	56	10	220	1,400	14,000
EW-3	09/12/94	44	5.9	12	31	300[c]	NA
	10/01/94	12	0.42	1.7	3.7	140[c]	NA
	01/13/95	4.6	7.6	1.2	6.6	230[c]	NA
	04/27/95	NS	NS	NS	NS	NS	NA
	08/03/95	<2.0	<2.0	<2.0	<2.0	<200	1,400
	10/17/95	4.4	<0.5	<0.5	<0.5	74	2,400
	01/24/96	16	<0.5	<0.5	<0.5	120	2,300
	04/24/96	34	3.7	8.9	11	180	3,800
	07/26/96	45	0.70	<0.5	2.1	180	2,000
EW-4	09/12/94	1,700	12	210	77	4,000[c]	NA
	10/01/94	100	1.5	15	11	460[c]	NA
	01/13/95	89	8.8	1.6	82	520[c]	NA
	04/27/95	NS	NS	NS	NS	NS	NA
	08/03/95	3,100	1,100	2,000	8,200	42,000	17,000
	10/17/95	6.3	<0.5	<0.5	<0.5	92	2,500
	01/24/96	79	2.5	2.9	10	220	9,200
	04/24/96	49	36	69	1,100	4,600	860
	07/26/96	610	6.2	200	300	2,900	15,000

TABLE 2-Continued

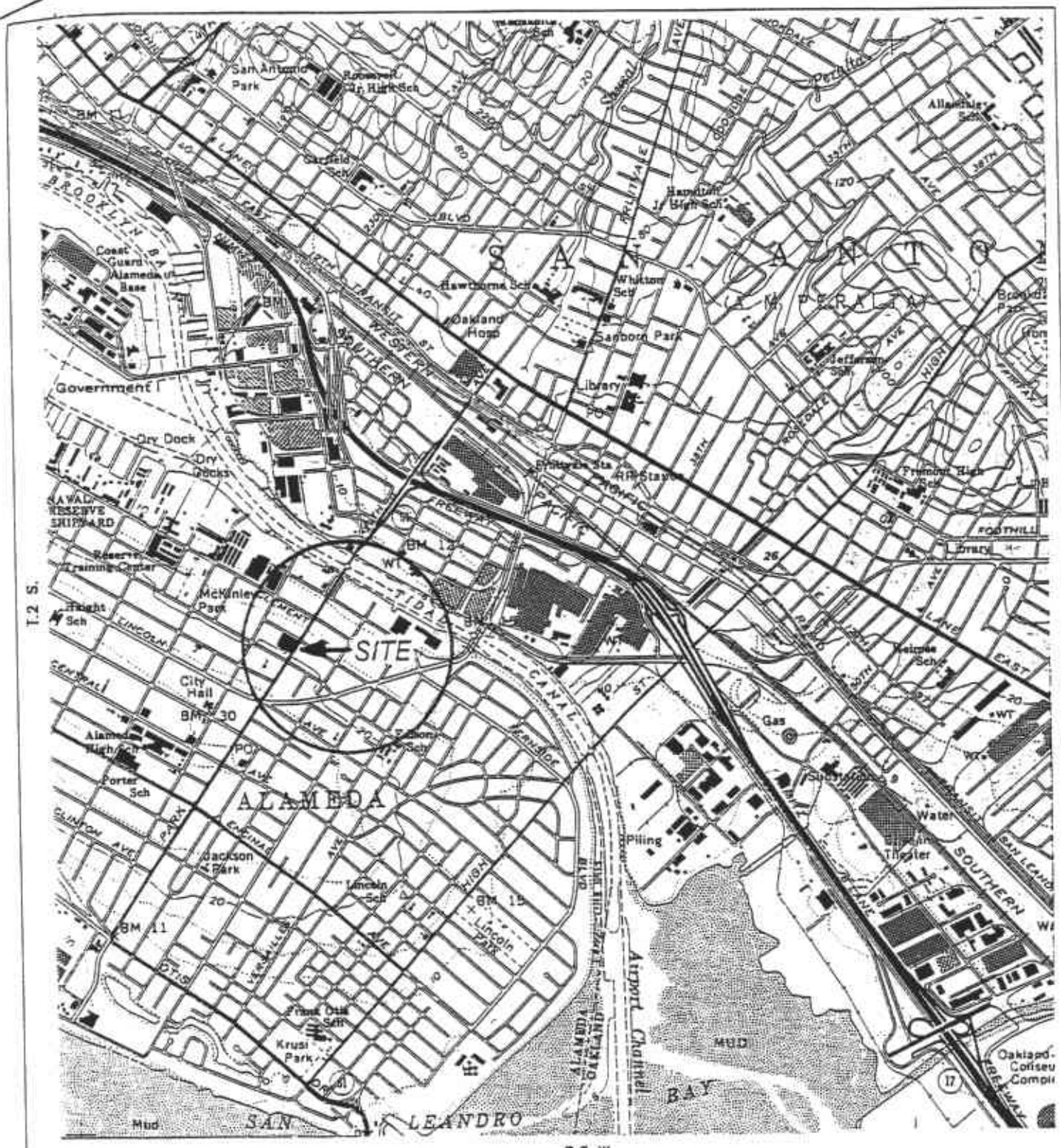
GROUND WATER SAMPLE RESULTS
Concentrations in micrograms per liter (μg/L)

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Monitoring Well	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH[a] as gasoline	MTBE[b]
EW-5	09/12/94	26	1.7	11	12	180[c]	NA
	10/01/94	16	0.92	5.7	8.5	130[c]	NA
	01/13/95	0.6	0.8	0.6	2.9	130[c]	NA
	04/27/95	NS	NS	NS	NS	NS	NA
	08/03/95	<0.5	<0.5	<0.5	<0.5	70	210
	10/17/95	1.5	<0.5	<0.5	3.0	78	50
	01/24/96	280	66	22	370	2,500	350
	04/24/96	690	240	380	1,300	6,400	400
	07/26/96	82	2.5	2.4	100	850	84

[a] Total petroleum hydrocarbons by EPA Method 8015 Modified, except as noted.
[b] Methyl tertiary butyl ether by EPA Method 8020.
[c] Total volatile hydrocarbons by DOHS/LUFT manual method.
[d] Not analyzed.
[e] Result obtained from a 1:10 dilution analyzed on January 17, 1995.
[f] Not sampled.

NOTE: Elevated detection limit quantified by multiplying laboratory reporting limits by Report Limit Multiplication Factor.



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND EAST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

North

CALIF

QUADRANGLE LOCATION

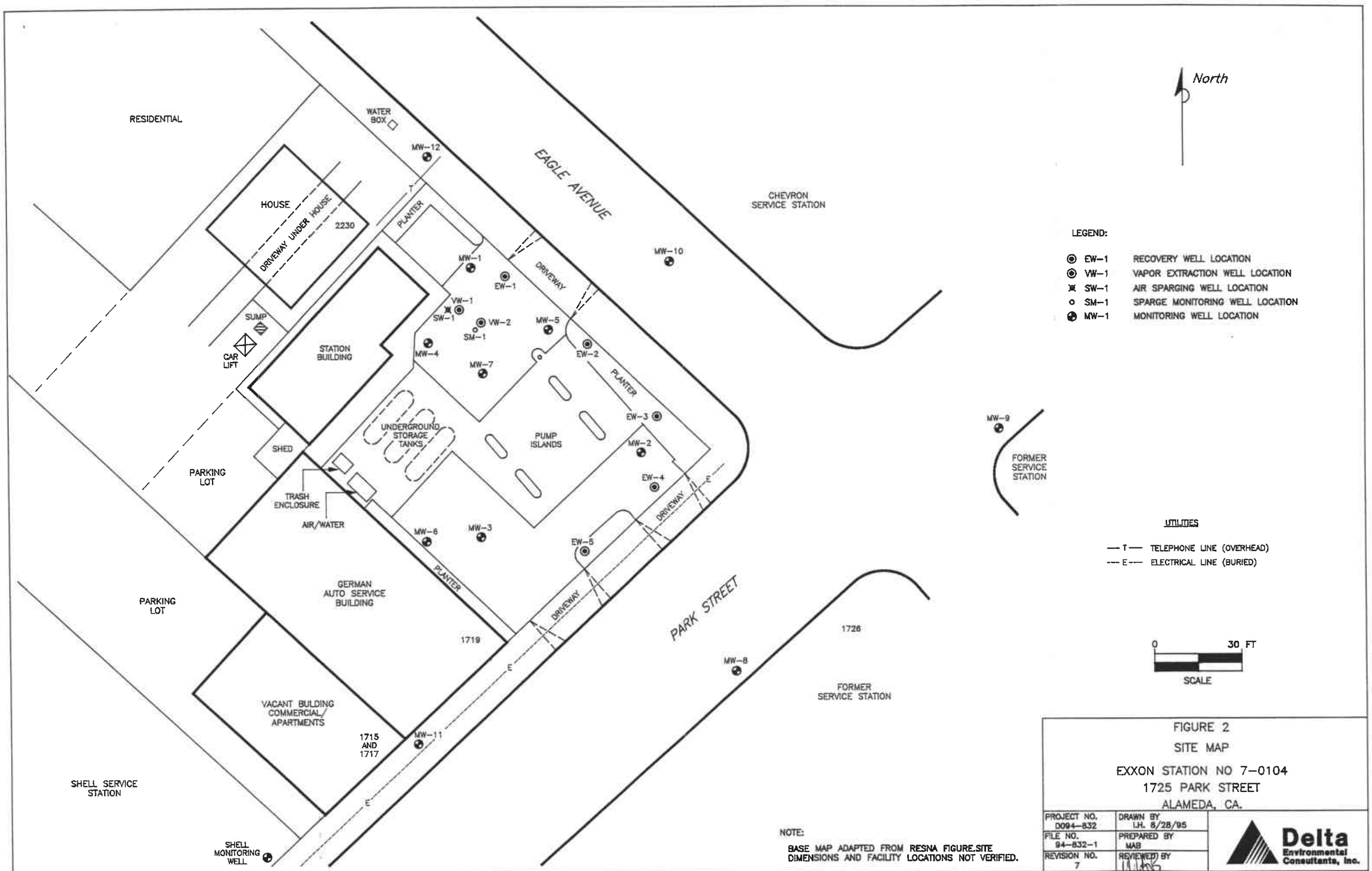
0 2000 FT

SCALE 1 : 24,000

FIGURE 1
SITE LOCATION MAP
EXXON STATION NO 7-0104
1725 PARK STREET
ALAMEDA, CA.

PROJECT NO. 0094-832	DRAWN BY LH. 9/27/94
FILE NO. —	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY 10/6/94

Delta Environmental Consultants, Inc.



NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE.SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 2

SITE MAP

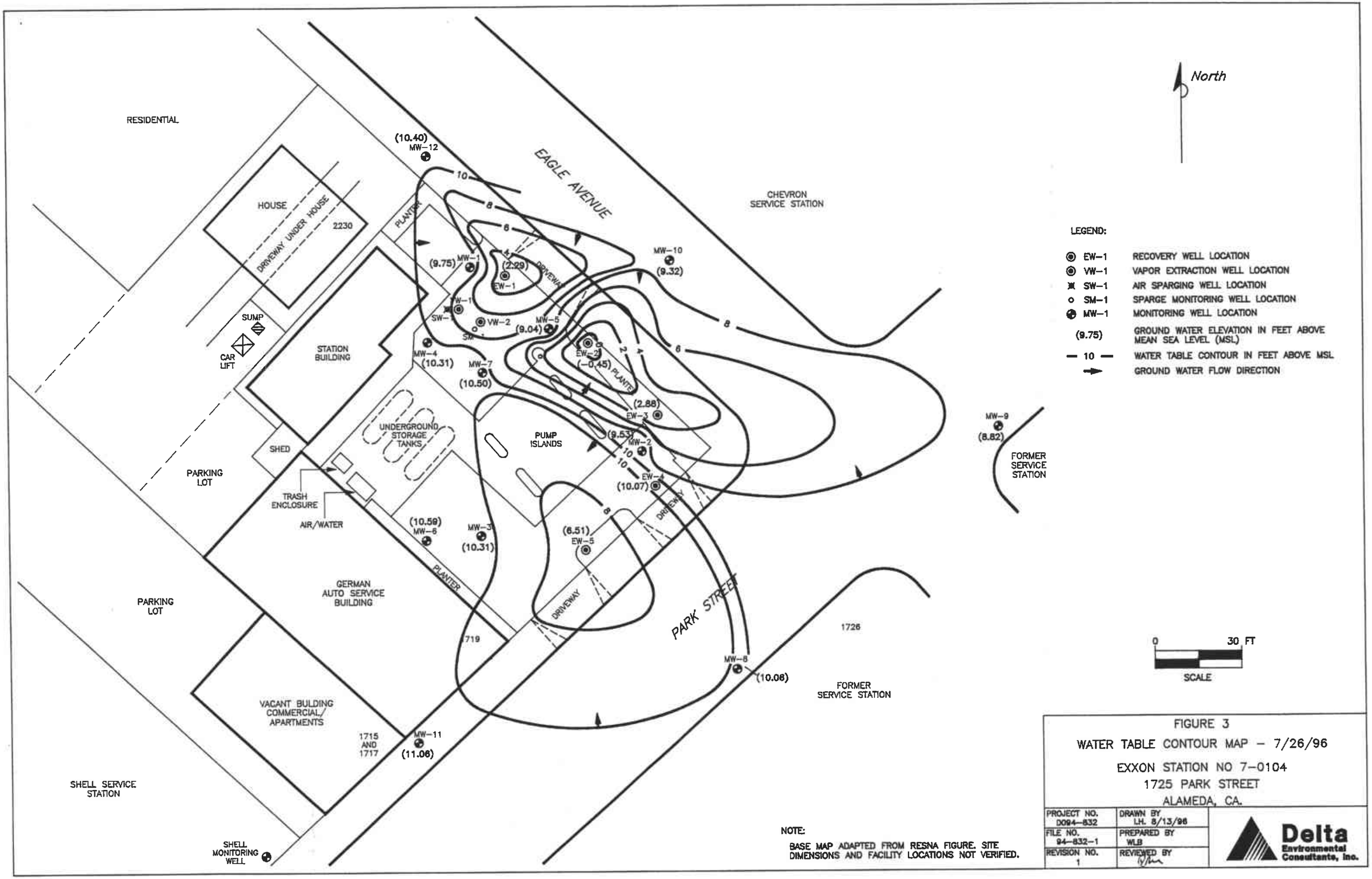
EXXON STATION NO 7-0104

1725 PARK STREET

ALAMEDA, CA.

PROJECT NO. D094-832	DRAWN BY I.H. 8/28/95
FILE NO. 94-832-1	PREPARED BY MAB
REVISION NO. 7	REVIEWED BY

Delta Environmental Consultants, Inc.



NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 3

WATER TABLE CONTOUR MAP – 7/26/96

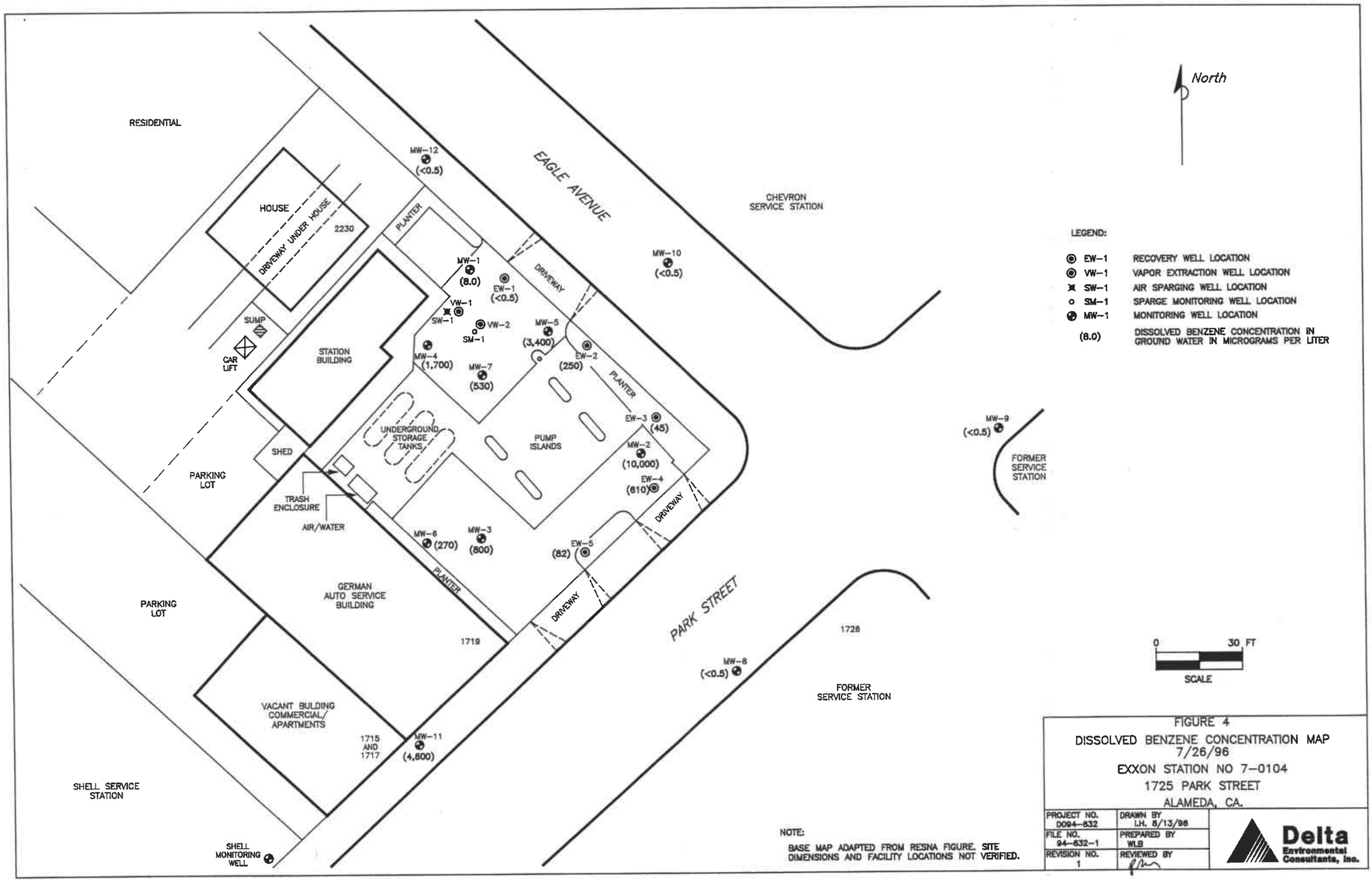
EXXON STATION NO 7-0104

1725 PARK STREET

ALAMEDA, CA.

PROJECT NO. D094-832	DRAWN BY L.H. 8/13/96
FILE NO. 94-832-1	PREPARED BY WLB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



NOTE:

BASE MAP ADAPTED FROM RESNA FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 4

DISSOLVED BENZENE CONCENTRATION MAP
7/26/96

EXXON STATION NO 7-0104

1725 PARK STREET

ALAMEDA, CA.

PROJECT NO. D094-832	DRAWN BY I.H. 8/13/96
FILE NO. 94-832-1	PREPARED BY WLB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

ENCLOSURE A

Field Methods and Procedures

FIELD METHODS AND PROCEDURES

1.0 GROUND WATER AND LIQUID-PHASE HYDROCARBON DEPTH ASSESSMENT

A water/hydrocarbon interface probe was used to assess the liquid-phase hydrocarbon (LPH) thickness, if present, and a water level indicator was used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water was measured from the top of each monitoring well casing. The tip of the water level indicator was subjectively analyzed for hydrocarbon sheen.

2.0 SUBJECTIVE ANALYSIS OF GROUND WATER

Prior to purging, a water sample was collected from the monitoring well for subjective assessment. The sample was retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer was then retrieved, and the sample contained within the bailer was examined for floating LPH and the appearance of a LPH sheen.

3.0 MONITORING WELL PURGING AND SAMPLING

Monitoring wells were purged using a centrifugal pump until three well volumes of water had been removed. Ground water removed from the wells was discharged to the sanitary sewer after treatment through the ground water remediation system located at the subject site. After purging, ground water levels were allowed to stabilize. A ground water sample was then removed from each of the wells using a disposable bailer. If the well was purged dry, it was allowed to sufficiently recharge and a sample was collected. Samples were collected in air-tight vials, appropriately labeled, and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to ensure sample integrity. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses.

ENCLOSURE B

Historical Ground Water Level Data and Analytical Results
(June 7, 1988 through February 25, 1994)

ENCLOSURE C

Laboratory Analytical Report

TABLE 1

CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Exxon Service Station No. 7-0104

1725 Park Street

Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-1 (17.35)	06/07/88	NM	NM	—	27,000	5,000	77	1,100	2,700
	06/10/88#	NLPH	6.35	11.00					
	01/17/89	NLPH	5.31	11.54	6,300	2,000	91	800	1,600
	01/24/89#	NLPH	5.16	12.19					
	06/01/89	sheen	6.27	11.08	1,700	170	6.9	13	230
	09/18/89	NLPH	7.11	10.24	2,100	9.0	53	18	130
	10/20/89#	NLPH	7.28	10.07					
	11/22/89#	NLPH	7.02	10.33					
	12/11/89	NLPH	6.60	10.75	5,300	200	42	290	330
	02/13/90#	NLPH	6.02	11.33					
	03/07/90a#	NM	NM	—					
	03/13/90	NLPH	5.31	11.44	2,300	430	14	16	220
	04/18/90#	NLPH	6.18	11.17					
	05/23/90#	NLPH	6.29	11.06					
	06/14/90	NLPH	6.19	11.28	32,000	1,400	19	<5	120
	08/21/90#	NLPH	7.03	10.32					
	09/19/90	NLPH	7.26	10.09	950	290	2.9	<0.5	27
	12/17/90	NLPH	6.75	10.60	2,100	950	13	350	110
	01/31/91#	NLPH	6.78	10.57					
	02/25/91#	NLPH	6.69	10.76					
	03/19/91	NLPH	6.35	11.50	1,400	900	45	390	150
	04/22/91#	sheen	6.72	11.83					
	05/17/91#	NLPH	6.00	11.35					
	07/24/91	NLPH	6.79	10.56	9,700	1,300	670	950	2,100
	09/10/91#	NLPH	7.25	10.10					
	09/23/91#	NLPH	7.33	10.02					
	10/21/91#	NLPH	7.53	9.82					
	10/22/91	NM	NM	—	540	220	1.3	110	7.3
	11/18/91#	NLPH	7.13	10.22					
	12/11/91#	NLPH	7.25	10.10					
	01/21/92	NLPH	6.54	10.81	1,300	650	23	300	64
	02/20/92#	NLPH	4.82	12.53					
	03/19/92#	NLPH	5.24	12.11					
	04/24/92	NLPH	5.71	11.64	4,300	1,600	78	660	250
	05/13/92#	NLPH	5.39	11.96					
	06/24/92#	NLPH	5.66	10.70					
	07/16/92	NLPH	6.72	10.63	3,400	1,000	11	550	100
	08/19/92#	NLPH	7.07	10.28					
	09/24/92	NLPH	7.36	9.99	3,700	1,300	21	330	<10
	02/05/93	NLPH	5.21	12.14	11,000	2,400	160	1,400	790
	04/30/93	NLPH	5.38	11.47	6,500	330	320	640	1,300
	05/14/93#	NLPH	7.22	10.13					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-1 cont. (17.35)	07/15/93	NLPH	8.01	9.34	7,300	270	52	1,100	1,000
	10/21/93#	NM	7.33	9.52	840	18	1.4	72	17
	11/16/93	NLPH	8.69	8.66					
	11/30/93#	NM	8.38	8.69					
	12/17/93#	NM	7.42	9.93					
	01/31/93#	NM	6.37	10.98	810	15	9.0	98	58
	02/24-25/94	NLPH	6.23	10.34					
MW-2 (16.67)	06/07/88	—	—	—	110,000	12,000	12,000	2,100	12,000
	06/10/88#	NLPH	6.20	10.47	30,000	6,600	3,300	1,500	7,700
	01/17/89	NLPH	5.96	10.71					
	01/24/89#	NLPH	5.04	11.63	8,700	330	280	680	1,200
	06/01/89	sheen	6.32	10.35	17,000	580	280	570	220
	09/13/89	NLPH	6.73	9.94					
	10/20/89#	NLPH	6.87	9.80					
	11/22/89#	NLPH	6.80	9.37	32,000	1,000	850	310	1,200
	12/11/89	NLPH	6.57	10.10					
	02/13/90#	NLPH	6.12	10.55	39,000	3,500	1,500	2,100	3,900
	03/13/90	NLPH	6.02	10.65					
	04/18/90#	NLPH	6.35	10.32					
	05/23/90#	NLPH	6.28	10.39	34,000	3,300	730	1,600	3,900
	06/14/90	NLPH	6.14	10.53					
	08/21/90#	NLPH	5.70	9.97	63,000	670	180	390	1,000
	09/19/90	NLPH	6.84	9.83	140,000	3,700	2,500	3,000	8,300
	12/17/90	NLPH	6.46	10.21					
	01/31/91#	sheen	6.66	10.01					
	02/25/91#	NLPH	6.50	10.17	48,000	4,500	1,600	2,100	5,500
	03/19/91	sheen	5.76	10.91					
	04/22/91#	NLPH	5.78	10.89					
	05/17/91#	NLPH	6.01	10.66	49,000	3,500	2,200	2,000	6,400
	07/24/91	NLPH	6.43	10.24					
	09/10/91#	NLPH	6.31	9.86					
	09/23/91#	NLPH	6.82	9.85					
	10/21/91#	NLPH	7.01	9.66	34,000	3,700	1,100	1,300	5,200
	10/22/91	—	—	—					
	11/18/91#	NLPH	6.66	10.01					
	12/11/91#	NLPH	6.85	9.82					
	01/21/92	NLPH	6.22	10.45	21,000	4,600	1,300	1,700	5,100
	02/20/92#	NLPH	5.28	11.39					
	03/19/92#	NLPH	5.34	11.33					
	04/24/92	sheen	5.75	10.92	36,000	5,000	970	2,300	5,200
	05/13/92#	NLPH	5.95	10.72					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	>	<	parts per billion			>
MW-3 cont. (17.11)	11/18/91#	NLPH	6.74	10.37					
	12/11/91#	NLPH	6.79	10.32					
	01/21/92	NLPH	6.16	10.95	13,000	2,700	30	1,800	740
	02/20/92#	NLPH	4.89	12.22					
	03/19/92#	NLPH	4.85	12.26					
	04/24/92	NLPH	5.28	11.83	17,000	4,200	170	1,600	600
	05/13/92#	NLPH	5.58	11.53					
	06/24/92#	NLPH	6.22	10.89					
	07/16/92	NLPH	6.36	10.75	11,000	2,700	230	1,100	570
	08/19/92#	NLPH	6.65	10.46					
	09/24/92	NLPH	6.93	10.18	7,100	2,000	44	1,000	220
	02/05/93	NLPH	4.71	12.40	13,000	3,500	110	1,300	430
	04/30/93	NLPH	5.46	11.65	13,000	1,500	370	1,500	1,300
	05/14/93#	NLPH	6.53	10.58					
	07/15/93	NLPH	7.28	9.83	2,100	310	15	230	58
	10/21/93#	NM	7.42	9.69					
	11/16/93	NLPH	8.02	9.09	4,000	400	400	120	490
	11/30/93	—	7.79	9.32	—	—	—	—	—
	12/17/93#	NM	7.13	9.98					
	01/31/94#	NM	6.32	10.79					
	02/24-25/94	NLPH	6.04	11.07	3,300	290	52	150	400
MW-4 (17.34)	01/17/89	NLPH	5.36	11.98	19,000	1,000	1,500	360	2,200
	01/24/89#	NLPH	5.46	11.88					
	06/01/89	NLPH	6.01	11.33	3,500	180	240	63	310
	09/18/89	NLPH	6.80	10.54	5,000	290	200	28	510
	10/20/89#	NLPH	7.08	10.25					
	11/22/89#	NLPH	6.82	10.52					
	12/11/89	NLPH	6.37	10.97	13,000	750	910	510	1,200
	02/13/90#	NLPH	5.49	11.85					
	03/07/90a#	NM	NM	—					
	03/13/90	NLPH	5.44	11.90	12,000	1,500	1500	470	28,000
	04/18/90#	NLPH	6.14	11.20					
	05/23/90#	NLPH	6.22	11.12					
	06/14/90	NLPH	5.92	11.42	12,000	5,700	400	1,300	760
	08/21/90#	NLPH	6.33	10.51					
	09/19/90	NLPH	7.07	10.27	5,500	670	180	390	1,000
	12/17/90	NLPH	6.50	10.84	14,000	1,400	620	540	2,100
	01/31/91#	NLPH	6.66	10.68					
	02/25/91#	NLPH	6.21	11.13					
	03/19/91	NLPH	5.29	12.05	11,000	1,500	740	620	2,100
	04/22/91#	NLPH	5.26	12.08					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	..... >	<		parts per billion	.....	>
MW-4 cont. (17.34)	05/17/91#	NLPH	5.60	11.74	10,000	1,200	440	410	1,200
	07/24/91	NLPH	6.54	10.80					
	09/10/91#	NLPH	7.04	10.30					
	09/23/91#	NLPH	7.14	10.20					
	10/21/91#	sheen	7.30	10.04	4,600	750	190	350	780
	10/22/91	—	—	—					
	11/18/91#	NLPH	6.90	10.44					
	12/11/91#	NLPH	7.01	10.33					
	01/21/92	NLPH	6.25	11.09	6,000	1,300	320	510	1,200
	02/20/92#	NLPH	4.79	12.55					
	03/19/92#	NLPH	4.70	12.54					
	04/24/92	sheen	5.25	12.09	11,000	1,700	630	710	1,600
	05/13/92#	sheen	5.62	11.72					
	06/24/92#	sheen	6.19	11.15					
	07/16/92	sheen	6.51	10.83	5,400	870	240	440	700
	08/19/92#	NLPH	6.35	10.49					
	09/24/92	NLPH	7.17	10.17	5,900	1,300	130	530	690
	02/05/93	NLPH	4.61	12.73	15,000	2,300	820	980	2,200
	04/30/93	NLPH	5.59	11.75	21,000	4,000	960	1,500	2,900
	05/14/93#	NLPH	6.50	10.84					
	07/15/93	NLPH	7.50	9.84	2,300	440	55	130	220
	10/21/93#	NM	7.77	9.57					
	11/16/93	NLPH	8.27	9.07	5,100	820	160	250	760
	11/30/93	—	8.02	9.32	—	—	—	—	—
	12/17/93#	NM	7.04	10.30					
	01/31/94#	NM	6.36	10.98					
	02/24-25/94	NLPH	5.78	11.56	9,300	2,200	190	660	1,200
MW-5 (16.71)	01/17/89	NLPH	5.39	11.32	26,000	8,700	3,900	990	5,900
	01/24/89#	NLPH	5.51	11.20					
	06/01/89	sheen	5.83	10.88	5,200	240	220	130	690
	09/18/89	NLPH	6.52	10.19	8,000	340	150	140	460
	10/20/89#	NLPH	6.72	9.99					
	11/22/89#	NLPH	6.54	10.17					
	12/11/89	NLPH	6.21	10.50	15,000	720	320	450	870
	02/13/90#	NLPH	5.60	11.11					
	03/07/90#	NM	NM	—					
	03/13/90	NLPH	5.54	11.17	10,000	3,400	220	280	800
	04/18/90#	NLPH	5.75	10.96					
	05/23/90#	NLPH	5.98	10.73					
	06/14/90	NLPH	5.31	10.90	12,000	3,300	160	350	730
	08/21/90#	NLPH	6.51	10.20					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< feet >			< parts per billion >				
MW-6 cont. (16.71)	09/19/90	NLPH	6.70	10.01	8,500	1,300	85	120	460
	12/17/90	sheen	6.24	10.47	18,000	2,300	810	430	1,400
	01/31/91#	NLPH	6.31	10.40					
	02/25/91#	NLPH	6.13	10.58					
	03/19/91	NLPH	5.32	11.39	17,000	2,900	610	580	1,200
	04/22/91#	sheen	5.30	11.41					
	05/17/91#	NLPH	5.59	11.12					
	07/24/91	NLPH	6.33	10.38	16,000	3,200	320	690	1,100
	09/10/91#	NLPH	6.66	10.05					
	09/23/91#	NLPH	6.75	9.96					
	10/21/91#	sheen	6.92	9.79					
	10/22/91	NM	NM	—	6,600	2,000	64	320	480
	11/18/91#	NLPH	6.55	10.16					
	12/11/91#	NLPH	6.64	10.07					
	01/21/92	sheen	6.07	10.64	14,000	4,000	190	630	1,300
	02/20/92#	NLPH	4.33	11.38					
	03/19/92#	sheen	4.33	11.38					
	04/24/92	sheen	5.32	11.39	12,000	2,600	120	620	530
	05/13/92#	sheen	5.61	11.10					
	06/24/92#	NLPH	6.17	10.54					
	07/16/92	sheen	6.25	10.46	20,000	4,000	48	880	720
	08/19/92#	sheen	6.53	10.18					
	09/24/92	sheen	6.30	9.91	9,300	2,200	31	330	250
	02/05/93b#	NLPH	4.70	12.01					
	04/30/93	sheen	5.43	11.28	30,000	5,900	450	1,900	1,500
	05/14/93#	NLPH	7.31	9.40					
	07/15/93#	0.07	7.93	8.34					
	10/21/93#	NM	7.25	9.46					
	11/15/93#	0.04	8.42	8.32					
	11/30/93#	—	8.10	8.61					
	12/17/93#	NM	7.43	9.28					
	01/31/94#	NM	5.95	10.76					
	02/24-25/94#	sheen	6.23	10.48					
MW-8 (17.56)	01/17/89	NLPH	5.59	11.97	38,000	7,400	9,300	2,000	9,900
	01/24/89#	NLPH	5.27	12.29					
	06/01/89	sheen	6.25	11.31	23,000	1,900	2,500	2,000	6,000
	09/18/89	NLPH	6.95	10.61	17,000	650	410	650	320
	10/20/89#	NLPH	7.24	10.32					
	11/22/89#	NLPH	7.05	10.51					
	12/11/89	NLPH	6.63	10.93	29,000	1,100	810	330	1,500
	02/13/90#	NLPH	5.70	11.86					

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< . . . . . feet . . . . . >			< . . . . . parts per billion . . . . . >				
MW-6 cont. (17.56)	03/07/90#	NM	NM	—					
	03/13/90	NLPH	5.63	11.93	38,000	12,000	15,000	2,500	12,000
	04/18/90#	NLPH	6.26	11.30					
	05/23/90#	NLPH	6.42	11.14					
	06/14/90	NLPH	6.19	11.37	38,000	9,100	7,300	2,900	12,000
	08/21/90#	NLPH	7.01	10.55					
	09/19/90	NLPH	7.23	10.33	22,000	4,200	300	1,400	3,400
	12/17/90	NLPH	6.56	10.90	20,000	3,100	4,100	890	2,700
	01/31/91#	NLPH	6.39	11.17					
	02/25/91#	NLPH	6.39	11.17					
	03/19/91	NLPH	5.57	11.99	180,000	11,000	55,000	5,600	28,000
	04/22/91#	NLPH	5.42	12.14					
	05/17/91#	NLPH	5.73	11.83					
	07/24/91	NLPH	6.72	10.34	48,000	5,400	2,300	2,000	9,000
	09/10/91#	NLPH	7.15	10.41					
	09/23/91#	NLPH	7.25	10.31					
	10/21/91#	NLPH	7.42	10.14					
	10/22/91	NM	NM	—	18,000	3,100	700	1,400	2,900
	11/18/91#	NLPH	7.08	10.48					
	12/11/91#	NLPH	7.17	10.39					
	01/21/92	NLPH	6.40	11.16	9,400	2,100	370	1,000	1,100
	02/20/92#	NLPH	5.06	12.50					
	03/19/92#	NLPH	4.86	12.70					
	04/24/92	NLPH	5.44	12.12	42,000	3,500	3,000	2,100	8,000
	05/13/92#	NLPH	5.83	11.73					
	06/24/92#	NLPH	6.50	11.06					
	07/16/92	NLPH	6.68	10.88	14,000	1,800	1,000	1,000	2,500
	08/19/92#	NLPH	7.00	10.56					
	09/24/92	NLPH	7.28	10.28	4,700	790	97	840	540
	02/05/93	NLPH	4.84	12.72	26,000	2,500	4,300	1,700	5,300
	04/30/93	NLPH	5.69	11.87	9,600	1,000	410	1,100	1,600
	05/14/93#	NLPH	6.52	11.04					
	07/15/93	NLPH	7.51	10.05	4,600	250	72	540	650
	10/21/93#	NM	7.85	9.71					
	11/16/93	NLPH	8.29	9.27	410	41	12	47	71
	11/30/93#	NM	8.08	9.48					
	12/17/93#	NM	7.27	10.29					
	01/31/94#	NM	6.62	10.94					
	02/24-25/94	NLPH	6.23	11.33	4,300	190	190	300	460

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	..... >	<	parts per billion		..... >	
MW-7 (17.12)	01/09/90	NM	NM	—	17,000	380	180	330	1,300
	02/13/90#	NLPH	4.98	12.14					
	03/13/90	NLPH	4.94	12.18	16,000	360	270	83	460
	05/23/90#	NLPH	5.37	11.75					
	06/14/90	NLPH	5.55	11.57	14,000	1,200	2,300	75	930
	09/19/90	NLPH	6.79	10.33	16,000	2,300	95	2,500	1,700
	12/17/90	NLPH	6.15	10.97	75,000	2,500	7,000	3,300	14,000
	01/31/91#	NLPH	6.64	10.48					
	02/25/91#	NLPH	5.30	11.32					
	03/19/91	NLPH	4.96	12.16	44,000	1,500	740	3,400	8,500
	04/22/91#	NLPH	4.82	12.30					
	05/17/91#	NLPH	5.18	11.94					
	07/24/91	NLPH	6.22	10.90	18,000	1,300	160	2,700	1,000
	09/10/91#	NLPH	6.71	10.41					
	09/23/91#	NLPH	6.84	10.28					
	10/21/91#	NLPH	7.00	10.12					
	10/22/91	—	—	—	10,000	990	25	1,900	490
	11/18/91#	NLPH	6.56	10.56					
	12/11/91#	NLPH	6.68	10.44					
	01/21/92	NLPH	5.99	11.13	23,000	2,200	3,000	1,300	6,100
	02/20/92#	NLPH	4.36	12.76					
	03/19/92#	NLPH	4.22	12.90					
	04/24/92	NLPH	4.84	12.28	25,000	1,400	220	2,100	2,600
	05/13/92#	NLPH	5.24	11.88					
	06/24/92#	NLPH	6.04	11.08					
	07/16/92	NLPH	6.19	10.93	8,700	470	45	970	86
	08/19/92#	NLPH	6.55	10.57					
	09/24/92	NLPH	6.83	10.29	9,200	560	48	1,300	54
	02/05/93	NLPH	4.11	13.01	33,000	1,100	2,300	1,200	4,200
	04/30/93b	NLPH	5.29	11.83	13,000	240	85	710	320
	05/14/93#	NLPH	5.91	11.21					
	07/15/93	NLPH	7.07	10.05	6,900	200	30	500	48
	10/21/93#	NM	7.55	9.57					
	11/16/93	NLPH	7.95	9.27	7,400	300	85	480	120
	11/30/93#	NM	7.56	9.46					
	12/17/93#	NM	6.75	10.37					
	01/31/94#	NM	6.22	10.90					
	02/24-25/94	NLPH	5.52	11.60	7,200	470	120	400	330

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		<	feet	. . . . . >	<	parts per billion			. . . . . >
MW-8 (16.33)	05/14/93	NLPH	6.54	9.79	<50	<0.5	<1.0	<0.5	<0.5
	07/15/93	NLPH	6.57	9.76	<50	<0.5	<0.5	<0.5	<0.5
	10/21/93#	NM	6.83	9.50					
	11/16/93	NLPH	7.15	9.18	<50	<0.5	<0.5	<0.5	<0.5
	11/30/93	—	6.94	9.39	—	—	—	—	—
	12/17/93#	NM	6.48	9.85					
	01/31/94#	NM	6.13	10.20					
	02/24-25/94	NLPH	5.80	10.53	<50	<0.5	<0.5	<0.5	<0.5
MW-9 (15.62)	05/14/93	NLPH	6.61	9.01	<50	<0.5	<1.0	<0.5	<0.5
	07/15/93	NLPH	6.79	8.83	<50	<0.5	<0.5	<0.5	<0.5
	10/21/93#	NM	6.97	8.65					
	11/16/93	NLPH	7.12	8.50	<50	<0.5	<0.5	<0.5	<0.5
	11/30/93	—	6.98	8.64	—	—	—	—	—
	12/17/93#	NM	6.73	8.87					
	01/31/94#	NM	6.71	8.91					
	02/24-25/94	NLPH	6.45	9.17	<50	<0.5	<0.5	<0.5	<0.5
MW-10 (16.79)	05/14/93	NLPH	6.91	9.88	97	<0.5	<0.5	9.8	22
	07/15/93	NLPH	7.47	9.32	160	<0.5	<0.5	15	19
	10/21/93#	NM	7.57	9.22					
	11/16/93	NLPH	8.17	8.62	<50	<0.5	<0.5	<0.5	<0.5
	11/30/93	—	7.96	8.83	—	—	—	—	—
	12/17/93#	NM	7.25	9.54					
	01/31/94#	NM	6.66	10.13					
	02/24-25/94	NLPH	6.53	10.26	280	<0.5	<0.5	12	7.0
EW-1 (16.22)	10/21/93#	NM	6.67	9.55					
	12/17/93#	NM	10.09	6.13					
	01/31/94#	NM	5.38	10.84					
	02/24-25/94	NLPH	5.58	10.64	1,000	140	4.5	15	120
EW-2 (16.05)	10/21/93#	NM	6.71	9.34					
	12/17/93#	NM	14.95	1.10					
	01/31/94#	NM	5.35	10.70					
	02/24-25/94	LPH	14.30	1.75	5,200	1,200	390	63	410
EW-3 (16.02)	10/21/93#	NM	6.55	9.47					
	12/17/93#	NM	15.65	0.37					
	01/31/94#	NM	5.34	10.68					
	02/24-25/94	NLPH	21.00	-4.98	91	<0.5	<0.5	<0.5	<0.5

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California
(Page 10 of 11)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< ..... feet ..... >			< ..... parts per billion ..... >				
EW-4	10/21/93#	NM	6.13	9.48					
(15.61)	12/17/93#	NM	14.60	1.01					
	01/31/94#	NM	5.08	10.53					
	02/24-25/94	LPH	14.38	0.73	4,800	1,900	140	13	450
EW-5	10/21/93#	NM	6.77	9.74					
(16.51)	12/17/93#	NM	14.20	2.31					
	01/31/94#	NM	5.64	10.87					
	02/24-25/94	NLPH	11.95	4.56	1,000	140	45	3.4	190
Field	12/11/89	—	—	—	<50	0.38	0.95	0.62	1.7
Blanks	12/17/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
	03/19/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
	07/24/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
	10/22/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
	01/21/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
	07/16/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
Travel	06/14/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
Blanks	09/19/90	—	—	—	<50	0.3	<0.5	0.6	1.0
	04/24/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5
	09/24/92	—	—	—	230	<0.5	<0.5	<0.5	<0.5
	Maximum Contaminant Levels (MCLs) (DHS)				—	1.0	—	680	1,750
	Drinking Water Action Level (DWAL) (DHS)				—	—	100	—	—

See notes on page 11 of 11.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X
		< ..... feet ..... >			< ..... parts per billion ..... >				

Notes:

TOC	=	Elevation of top of well casing; datum is mean sea level, revised February 10, 1994.
SUBJ	=	Results of subjective evaluation, liquid-phase product thickness (PT) in feet
DTW	=	Depth to water
Elev.	=	Elevation of groundwater; datum is mean sea level; adjusted for free-phase petroleum hydrocarbons when present using the equation: Elev. = TOC - [DTW + (PT * 0.8)] where PT is the product thickness
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015
BTEX	=	Benzene, Toluene, Ethylbenzene, and total Xylenes analyzed using EPA method 5030/8020
NM	=	Not Monitored
NLPH	=	No liquid-phase petroleum hydrocarbons present in well
LPH	=	Liquid-phase petroluem hydrocarbons present in well, thickness not measured, or not measurable.
NA	=	Well not accessible on this date
<	=	Less than the indicated detection limit shown by the laboratory
—	=	Not applicable
#	=	Well not sampled on this date
a	=	03/07/90 sampling: Total Dissolved Solids were detected in samples from MW-1 and MW-4 at 910 parts-per-million (ppm) and 370 ppm, respectively.
b	=	a peak eluting before benzene was present in the groundwater samples from MW-5 and MW-7, and is suspected to be methyl-tert-butyl-ether (MTBE).

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Delta Environmental Consultants	Client Project ID:	Exxon #7-0104, Alameda, CA	Sampled: Jul 26, 1996
3164 Gold Camp Dr., Suite 200	Sample Matrix:	Water	Received: Jul 29, 1996
Rancho Cordova, CA 95670	Analysis Method:	EPA 5030/8015/8020	Reported: Aug 6, 1996
Attention: Richard Munsch	First Sample #:	607-1270	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 607-1270 MW-1	Sample I.D. 607-1271 MW-2	Sample I.D. 607-1272 MW-3	Sample I.D. 607-1273 MW-4	Sample I.D. 607-1274 MW-5	Sample I.D. 607-1275 MW-6
Purgeable Hydrocarbons	50	620	40,000	2,500	9,100	15,000	27,000
Benzene	0.50	8.0	10,000	800	1,700	3,400	270
Toluene	0.50	0.99	N.D.	16	N.D.	53	660
Ethyl Benzene	0.50	26	1,800	24	340	280	1,600
Total Xylenes	0.50	1.0	760	56	280	76	5,500
Chromatogram Pattern:		Weathered Gasoline C6-C12	Weathered Gasoline C6-C12	Weathered Gasoline C6-C12	Weathered Gasoline C6-C12	Weathered Gasoline C6-C12	Gasoline C6-C12

Quality Control Data

Report Limit Multiplication Factor:	1.0	400	20	50	80	100
Date Analyzed:	07/29/96	07/29/96	07/29/96	07/30/96	07/30/96	07/30/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	91	99	110	100	*	102

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected at or above the reporting limit.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory

6071270.DLT <1>

Sequoia Analytical

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Delta Environmental Consultants	Client Project ID:	Exxon #7-0104, Alameda, CA	Sampled:	Jul 26, 1996
3164 Gold Camp Dr., Suite 200	Sample Matrix:	Water	Received:	Jul 29, 1996
Rancho Cordova, CA 95670	Analysis Method:	EPA 5030/8015/8020	Reported:	Aug 6, 1996
Attention: Richard Munsch	First Sample #:	607-1276		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 607-1276 MW-7	Sample I.D. 607-1277 MW-8	Sample I.D. 607-1278 MW-9	Sample I.D. 607-1279 MW-10	Sample I.D. 607-1280 MW-11	Sample I.D. 607-1281 MW-12
Purgeable Hydrocarbons	50	4,800	N.D.	N.D.	140	39,000	N.D.
Benzene	0.50	530	N.D.	N.D.	N.D.	4,600	N.D.
Toluene	0.50	25	N.D.	N.D.	N.D.	4,200	N.D.
Ethyl Benzene	0.50	60	N.D.	N.D.	12	950	N.D.
Total Xylenes	0.50	46	N.D.	N.D.	0.86	9,500	N.D.
Chromatogram Pattern:		Weathered Gasoline C6-C12	--	--	Weathered Gasoline C6-C12	Gasoline C6-C12	--

Quality Control Data

Report Limit Multiplication Factor:	10	1.0	1.0	1.0	200	1.0
Date Analyzed:	07/29/96	07/29/96	07/29/96	08/01/96	08/02/96	08/01/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-7	GCHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	91	87	91	96	122	93

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected at or above the reporting limit.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory

6071270.DLT <2>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Delta Environmental Consultants	Client Project ID:	Exxon #7-0104, Alameda, CA	Sampled: Jul 26, 1996
3164 Gold Camp Dr., Suite 200	Sample Matrix:	Water	Received: Jul 29, 1996
Rancho Cordova, CA 95670	Analysis Method:	EPA 5030/8015/8020	Reported:
Attention: Richard Munsch	First Sample #:	607-1282	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 607-1282 EW-1	Sample I.D. 607-1283 EW-2	Sample I.D. 607-1284 EW-3	Sample I.D. 607-1285 EW-4	Sample I.D. 607-1286 EW-5
Purgeable Hydrocarbons	50	N.D.	1,400	180	2,900	850
Benzene	0.50	N.D.	250	45	610	82
Toluene	0.50	N.D.	56	0.70	6.2	2.5
Ethyl Benzene	0.50	N.D.	10	N.D.	200	2.4
Total Xylenes	0.50	N.D.	220	2.1	300	100
Chromatogram Pattern:		--	Weathered Gasoline C6-C12	Weathered Gasoline C6-C12	Gasoline C6-C12	Gasoline C6-C12

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	1.0	10	2.0
Date Analyzed:	08/01/96	08/02/96	08/01/96	08/01/96	08/02/96
Instrument Identification:	GCHP-2	GCHP-7	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	95	97	*	89	104

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected at or above the reporting limit.
*Matrix interference.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory

6071270.DLT <3>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Delta Environmental Consultants	Client Project ID:	Exxon #7-0104, Alameda, CA	Sampled:	Jul 26, 1996
3164 Gold Camp Dr., Suite 200	Sample Matrix:	Water	Received:	Jul 29, 1996
Rancho Cordova, CA 95670	Analysis Method:	EPA 5030/8020 Modified	Reported:	Aug 6, 1996
Attention: Richard Munsch	First Sample #:	607-1270		

Methyl Tertiary Butyl Ether (MTBE)

Analyte	Reporting Limit µg/L	Sample I.D. 607-1270 MW-1	Sample I.D. 607-1271 MW-2	Sample I.D. 607-1272 MW-3	Sample I.D. 607-1273 MW-4	Sample I.D. 607-1274 MW-5	Sample I.D. 607-1275 MW-6
MTBE	5.0	23	18,000	250	1,200	140,000	1,300

Quality Control Data

Report Limit Multiplication Factor:	1.0	1,000	1.0	100	4,000	100
Date Analyzed:	07/29/96	07/29/96	07/29/96	07/30/96	07/30/96	07/30/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery: (QC Limits = 70-130%)	91	94	110	102	98	102

Analytes reported as N.D. were not detected at or above the reporting limit.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C Schneider

Linda C. Schneider
Project Manager/Sacramento Laboratory

6071270.DLT <4>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Delta Environmental Consultants	Client Project ID:	Exxon #7-0104, Alameda, CA	Sampled:	Jul 26, 1996
3164 Gold Camp Dr., Suite 200	Sample Matrix:	Water	Received:	Jul 29, 1996
Rancho Cordova, CA 95670	Analysis Method:	EPA 5030/8020 Modified	Reported:	Aug 6, 1996
Attention: Richard Munsch	First Sample #:	607-1276		

Methyl Tertiary Butyl Ether (MTBE)

Analyte	Reporting Limit µg/L	Sample I.D. 607-1276 MW-7	Sample I.D. 607-1277 MW-8	Sample I.D. 607-1278 MW-9	Sample I.D. 607-1279 MW-10	Sample I.D. 607-1280 MW-11	Sample I.D. 607-1281 MW-12
MTBE	5.0	86,000	230	N.D.	N.D.	800	N.D.

Quality Control Data

Report Limit Multiplication Factor:	4,000	1.0	1.0	1.0	20	1.0
Date Analyzed:	07/30/96	07/29/96	07/29/96	08/01/96	08/01/96	08/01/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery: (QC Limits = 70-130%)	94	87	91	96	113	93

Analytes reported as N.D. were not detected at or above the reporting limit.
Report amended August 13, 1996.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory

6071270.DLT <5>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Delta Environmental Consultants	Client Project ID:	Exxon #7-0104, Alameda, CA	Sampled:	Jul 26, 1996
3164 Gold Camp Dr., Suite 200	Sample Matrix:	Water	Received:	Jul 29, 1996
Rancho Cordova, CA 95670	Analysis Method:	EPA 5030/8020 Modified	Reported:	Aug 6, 1996
Attention: Richard Munsch	First Sample #:	607-1282		

Methyl Tertiary Butyl Ether (MTBE)

Analyte	Reporting Limit µg/L	Sample I.D. 607-1282 EW-1	Sample I.D. 607-1283 EW-2	Sample I.D. 607-1284 EW-3	Sample I.D. 607-1285 EW-4	Sample I.D. 607-1286 EW-5
MTBE	5.0	960	14,000	2,000	15,000	84

Quality Control Data

Report Limit Multiplication Factor:	25	500	100	250	2.0
Date Analyzed:	08/02/96	08/02/96	08/02/96	08/02/96	08/02/96
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery: (QC Limits = 70-130%)	90	93	94	95	104

Analytes reported as N.D. were not detected at or above the reporting limit.

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory

6071270.DLT <6>

Sequoia Analytical

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Delta Environmental Consultants
3164 Gold Camp Dr., Suite 200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon #7-0104, Alameda, CA
Matrix: Water
QC Sample Group 6071270-86

Reported: Aug 6, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	V. Owens	V. Owens	V. Owens	V. Owens
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS072996	LCS072996	LCS072996	LCS072996
Date Prepared:	07/29/96	07/29/96	07/29/96	07/29/96
Date Analyzed:	07/29/96	07/29/96	07/29/96	07/29/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
LCS % Recovery:	91	87	78	86
Control Limits:	75-125	75-125	75-125	75-125
MS/MSD Batch #:	6071150	6071150	6071150	6071150
Date Prepared:	07/29/96	07/29/96	07/29/96	07/29/96
Date Analyzed:	07/29/96	07/29/96	07/29/96	07/29/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Matrix Spike % Recovery:	76	78	76	80
Matrix Spike Duplicate % Recovery:	82	82	80	77
Relative % Difference:	7.6	5.0	5.1	3.8

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

Sequoia Analytical

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Delta Environmental Consultants
3164 Gold Camp Dr., Suite 200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon #7-0104, Alameda, CA
Matrix: Water
QC Sample Group 6071178-90

Reported: Aug 6, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	V. Owens	V. Owens	V. Owens	V. Owens
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS073096	LCS073096	LCS073096	LCS073096
Date Prepared:	07/30/96	07/30/96	07/30/96	07/30/96
Date Analyzed:	07/30/96	07/30/96	07/30/96	07/30/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
LCS % Recovery:	105	106	108	105
Control Limits:	75-125	75-125	75-125	75-125
MS/MSD Batch #:	6071275	6071275	6071275	6071275
Date Prepared:	07/30/96	07/30/96	07/30/96	07/30/96
Date Analyzed:	07/30/96	07/30/96	07/30/96	07/30/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Matrix Spike % Recovery:	100	102	93	92
Matrix Spike Duplicate % Recovery:	98	100	99	97
Relative % Difference:	2.0	2.0	6.2	5.3

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

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Delta Environmental Consultants
3164 Gold Camp Dr., Suite 200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon #7-0104, Alameda, CA
Matrix: Water
QC Sample Group 6071178-90

Reported: Aug 6, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	V. Owens	V. Owens	V. Owens	V. Owens
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS080196	LCS080196	LCS080196	LCS080196
Date Prepared:	08/01/96	08/01/96	08/01/96	08/01/96
Date Analyzed:	08/01/96	08/01/96	08/01/96	08/01/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
LCS % Recovery:	99	100	102	102
Control Limits:	75-125	75-125	75-125	75-125
MS/MSD Batch #:	6071212	6071212	6071212	6071212
Date Prepared:	08/01/96	08/01/96	08/01/96	08/01/96
Date Analyzed:	08/01/96	08/01/96	08/01/96	08/01/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Matrix Spike % Recovery:	93	91	93	94
Matrix Spike Duplicate % Recovery:	92	92	92	92
Relative % Difference:	1.1	1.1	1.1	2.2

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

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Delta Environmental Consultants
3164 Gold Camp Dr., Suite 200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon #7-0104, Alameda, CA
Matrix: Water
QC Sample Group 6071178-90

Reported: Aug 6, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	V. Owens	V. Owens	V. Owens	V. Owens
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS080296	LCS080296	LCS080296	LCS080296
Date Prepared:	08/02/96	08/02/96	08/02/96	08/02/96
Date Analyzed:	08/02/96	08/02/96	08/02/96	08/02/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
LCS % Recovery:	94	97	93	94
Control Limits:	75-125	75-125	75-125	75-125
MS/MSD Batch #:	6071330	6071330	6071330	6071330
Date Prepared:	08/02/96	08/02/96	08/02/96	08/02/96
Date Analyzed:	08/02/96	08/02/96	08/02/96	08/02/96
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2
Matrix Spike % Recovery:	94	94	93	91
Matrix Spike Duplicate % Recovery:	90	93	90	90
Relative % Difference:	4.3	1.1	3.3	1.1

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

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6071270.DLT <10>

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Delta Environmental Consultants
3164 Gold Camp Dr., Suite 200
Rancho Cordova, CA 95670
Attention: Richard Munsch

Client Project ID: Exxon #7-0104, Alameda, CA
Matrix: Water
QC Sample Group 6071178-90

Reported: Aug 6, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	V. Owens	V. Owens	V. Owens	V. Owens
Concentration Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#:	LCS080296	LCS080296	LCS080296	LCS080296
Date Prepared:	08/02/96	08/02/96	08/02/96	08/02/96
Date Analyzed:	08/02/96	08/02/96	08/02/96	08/02/96
Instrument I.D.#:	GCHP-7	GCHP-7	GCHP-7	GCHP-7
LCS % Recovery:	112	113	113	113
Control Limits:	75-125	75-125	75-125	75-125
MS/MSD Batch #:	6071282	6071282	6071282	6071282
Date Prepared:	08/02/96	08/02/96	08/02/96	08/02/96
Date Analyzed:	08/02/96	08/02/96	08/02/96	08/02/96
Instrument I.D.#:	GCHP-7	GCHP-7	GCHP-7	GCHP-7
Matrix Spike % Recovery:	109	119	108	109
Matrix Spike Duplicate % Recovery:	114	114	113	114
Relative % Difference:	4.5	4.3	4.5	4.5

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

Please Note:
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EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental Consultants. Page 1 of 2

Address: 3164 Gold Camp Dr. Rancho		Site Location: Alameda
Project #:	Consultant Project #: D094-832	Consultant Work Release #: 19432522
Project Contact: Rich Munch	Phone #: 638-2085	Laboratory Work Release #:
EXXON Contact: Marla Guensler	Phone #:	EXXON RAS #: 7-0104
Sampled by (print): Jay Stoops	Sampler's Signature: [signature]	
Shipment Method: Sequoia	Air Bill #:	

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE		Temperature: ____ Inbound Seal: Yes No Outbound Seal: Yes No
per Richard Munch-	7/26/96											
mw-1	~~7-16-96~~	1250	H2O	HCl	3	5607-1270	X			X		
mw-2	↓	1140	↓	↓	↓	-1271	↓			↓		
mw-3	↓	1110	↓	↓	↓	-1272	↓			↓		
mw-4	↓	1230	↓	↓	↓	-1273	↓			↓		
mw-5	↓	1130	↓	↓	↓	-1274	↓			↓		
mw-6	↓	1215	↓	↓	↓	-1275	↓			↓		
mw-7	↓	1240	↓	↓	↓	-1276	↓			↓		
mw-8	↓	0920	↓	↓	↓	-1277	↓			↓		
mw-9	↓	0935	↓	↓	↓	-1278	↓			↓		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Jay Stoops / Delta	7/29/96	0830	John Youell / Sequoia	7/29/96	0830	
John Youell / Sequoia	7/29/96	0930	Sandi Hensa / Sequoia	7/29/96	0930	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical
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Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental Consultants — Page 2 of 2

Address: 3164 Gold Cotage Dr. Rancho — Site Location: Alameda

Project #: — Consultant Project #: D-94-832 — Consultant Work Release #: 9432522

Project Contact: Rick Munch — Phone #: 638-2085 — Laboratory Work Release #:

EXXON Contact: Marla Guenslex — Phone #: — EXXON RAS #: 7-0104

Sampled by (print): Jim Stevens — Sampler's Signature:

Shipment Method: Sequoia — Air Bill #:

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE		Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
MW-10	7-26-96	0945	H20	HCl	3	3607-1279	X			X		
MW-11		1015				1280						
MW-12		1000				1281						
EW-1		1100				-1282						
EW-2		1105				-1283						
EW-3		1110				-1284						
EW-4		1115				-1285						
MW-6		1115				-1286						

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
D. Hay / Delta	7/29/96	0830	John Young / Sequoia	7/29/96	0830	
John Young / Sequoia	7/29/96	0930	Sandi Hansen / Sequoia	7/29/96	0930	

White - Sequoia Yellow - Sequoia Pink - Client

Sequoia Analytical
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Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Delta Environmental Consultants		Page 1 of 2
Address: 3164 Gold Camp Dr. Rancho		Site Location: Alameda
Project #:	Consultant Project #: D094-832	Consultant Work Release #: 19432522
Project Contact: Rich Munch	Phone #: 638-2085	Laboratory Work Release #:
EXXON Contact: Marla Guensler	Phone #:	EXXON RAS #: 7-0041
Sampled by (print): Jay Stoops	Sampler's Signature: [signature]	
Shipment Method: Sequoia	Air Bill #:	

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE		Temperature: ____ Inbound Seal: Yes No Outbound Seal: Yes No
MW-1	7-16-96	1250	H2O	HCL	3	5607-1270	X			X		
MW-2	↓	1140	↓	↓	↓	-1271	↓			↓		
MW-3		1110				-1272						
MW-4		1230				-1273						
MW-5		1130				-1274						
MW-6		1215				-1275						
MW-7		1240				-1276						
MW-8		0920				-1277						
MW-9		0935				-1278						

per Richard Munsch 7/26/96

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Jay [signature] / Delta	7/29/96	0830	John Youell / Sequoia	7/29/96	0830	
John Youell / Sequoia	7/29/96	0930	Sandi Hansen / Sequoia	7/29/96	0930	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Page 2 of 2

Consultant's Name: Delta Environmental Consultants		
Address: 3164 Gold Course Dr. Rancho		Site Location: Alameda
Project #:	Consultant Project #: D-94-832	Consultant Work Release #: 19432522
Project Contact: Rick Munch	Phone #: 638-2085	Laboratory Work Release #:
EXXON Contact: Marla Guensler	Phone #:	EXXON RAS #: 7-0104
Sampled by (print): Tom Stamos	Sampler's Signature:	
Shipment Method: Sequoia	Air Bill #:	

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE		Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
MW-10	7-26-96	0945	H20	HCl	3	5607 1279	X			X		
MW-11		1015				1280						
MW-12		1000				1281						
EW-1		1100				-1282						
EW-2		1105				-1283						
EW-3		1110				-1284						
EW-4		1145				-1285						
EW-6		1115				-1286						

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Delta	7/29/96	0830	John Young / Sequoia	7/29/96	0830	
John Young / Sequoia	7/29/96	0930				
			Sandi Hansen / Sequoia	7/29/96	0930	

Pink - Client
Yellow - Sequoia
White - Sequoia