



BP OIL

ENVIRONMENTAL PROTECTION

97 MAR -7 PM 3:45

BP Oil Company
Environmental Remediation Management
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667
Fax No. (206) 251-0736

March 4, 1997

Alameda County Health Care Services Agency
Attention: Ms. Eva Chu
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

John waiting for guidance from SWRCB re: closure of sites with "elevated" MTBE.

RE: BP Oil Site No. 11116
Village Parkway (at 7197) and Amador Valley
Dublin, CA

Do annual sampling of wells AW 5 and 6 for TPHg / MBTEX (in Feb/March)

Dear Ms. Chu:

Enclosed please find a report titled Groundwater Monitoring and Sampling Report, dated 4 February 1997. The report summarizes chemical data for samples obtained from the monitoring wells at the BP site since 1990.

Please confirm the status of BP's request for a finding for "no further action" and "case closure" tendered on December 16, 1996. I am assuming that no further action is required of BP, with the exception of removing the groundwater monitoring wells. I would like to schedule this work in the near future, and look forward to hearing from you soon.

Please give me a call if you have any questions, comments or concerns regarding this request. I can be reached at (206) 251-0689.

Sincerely,

Scott Hooton
Environmental Remediation Management

attachment

cc: Brady Nagie - Alisto
CRWQCB, Attention Mr. K Graves, 2101 Webster Street, Ste. 500, Oakland,
CA 94612
ARCO Products Company, Attention Mr Paul Supple, 2155 South Bascom
Avenue, Suite 202, Cambell, CA 95008

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11116
7197 Village Parkway
Dublin, California

Project No. 10-017-06-002

FEB 18 1997

**BP OIL CO.
ENVIRONMENTAL
WEST COAST REGION**

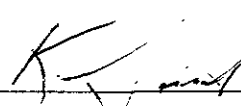
Prepared for:

**BP Oil Company
Environmental Resources Management
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington**

Prepared by:

**Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California**

February 4, 1997



Ken Simas
Project Manager



Al Sevilla, P.E.
Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11116
7197 Village Parkway
Dublin, California

Project No. 10-017-06-002

February 4, 1997

INTRODUCTION

This report presents the results and findings of the December 2, 1996 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11116, 7197 Village Parkway, Dublin, California. A site vicinity map is shown on Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes, while recording field readings of pH, temperature, electrical conductivity, and dissolved oxygen. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.

Groundwater monitoring is performed concurrently at the neighboring Unocal Corporation service station, 7375 Amador Valley Boulevard; the ARCO Products Company service station, 7249 Village Parkway; and the Shell Oil Company service station, 7194 Amador Valley Boulevard. The results for this event and historical data are presented in Tables 2, 3 and 4.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples collected during this and previous events are summarized in Table 1. The potentiometric groundwater elevation contour map is shown on Figure 2. The results of groundwater analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-1	10/12/90	335 17	9.92	325.25	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-1	11/15/90	335 17	10.16	325.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-1	12/11/90	335 17	9.97	325.20	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/15/91	335 17	9.89	325.28	ND<50	50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	41 (c)	---	SUP
MW-1	05/14/91	335 17	8.43	326.74	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	7500	ND	---	SUP
MW-1	08/23/91	335 17	9.98	325.19	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	ANA
MW-1	11/13/91	335 17	10.09	325.08	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SEQ
MW-1	02/25/92	335 17	8.28	326.89	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SEQ
MW-1	04/15/92	335 17	8.50	326.67	---	---	---	---	---	---	---	---	---	---	---
MW-1	06/03/92	335 17	9.06	326.11	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-1	08/12/92	335 17	10.01	325.16	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-1	11/10/92	335 17	10.67	324.50	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-1	02/10/93	335 17	5.25	329.92	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	PACE
MW-1	05/21/93	335 17	5.73	329.44	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/12/93	335 17	8.99	326.18	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-1	11/11/93	335 17	9.65	325.52	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/11/94	335 17	8.72	326.45	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	PACE
MW-1	05/17/94	335 17	8.17	327.00	---	---	---	---	---	---	---	---	---	---	---
MW-1	06/20/94	335 17	8.37	326.80	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/04/94	335 17	9.66	325.51	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	6.5	PACE
MW-1 (d)	11/18/94	335 17	8.65	326.52	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/15/95	335 17	6.56	328.61	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
MW-1	05/24/95	335 17	6.80	328.37	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/29/95	335 17	8.72	326.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.7	ATI
MW-1	11/28/95	335 17	9.54	325.63	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/26/96	335 17	5.60	329.57	---	---	---	---	---	---	---	---	---	---	---
MW-1	05/23/96	335 17	7.13	328.04	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/23/96	335 17	6.71	328.46	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	5.7	SPL
MW-1	12/02/96	335 17	8.58	326.59	---	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-2	10/12/90	334 58	9.60	324.98	93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-2	11/15/90	334 58	9.68	324.90	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-2	12/11/90	334 58	9.47	325.11	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/15/91	334 58	9.28	325.30	ND<50	60	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	45 (c)	---	SUP
MW-2	05/14/91	334 58	7.74	326.84	130	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	6000	ND	---	SUP
MW-2	08/23/91	334 58	9.81	324.77	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	ANA
MW-2	11/13/91	334 58	9.73	324.85	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SEQ
MW-2	02/25/92	334 58	7.55	327.03	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SEQ
MW-2	04/15/92	334 58	8.00	326.58	---	---	---	---	---	---	---	---	---	---	---
MW-2	06/03/92	334 58	8.56	326.02	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-2	08/12/92	334 58	9.62	324.96	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-2	11/10/92	334 58	10.27	324.31	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-2	02/10/93	334 58	6.46	328.12	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-2	05/21/93	334 58	6.96	327.62	---	---	---	---	---	---	---	---	---	---	---
MW-2	08/12/93	334 58	8.58	326.00	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-2	11/11/93	334 58	9.28	325.30	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/11/94	334 58	8.10	326.48	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-2	05/17/94	334 58	7.71	326.87	---	---	---	---	---	---	---	---	---	---	---
MW-2	06/20/94	334 58	7.93	326.65	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/04/94	334 58	9.27	325.31	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	5.3	PACE
MW-2 (d)	11/18/94	334 58	8.15	326.43	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/15/95	334 58	5.97	328.61	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
MW-2	05/24/95	334 58	6.50	328.08	---	---	---	---	---	---	---	---	---	---	---
MW-2	08/29/95	334 58	8.35	326.23	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.7	ATI
MW-2	11/28/95	334 58	9.05	325.53	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/26/96	334 58	4.49	330.09	---	---	---	---	---	---	---	---	---	---	---
MW-2	05/23/96	334 58	6.95	327.63	---	---	---	---	---	---	---	---	---	---	---
MW-2	08/23/96	334 58	6.53	328.05	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	5.3	SPL
MW-2	12/02/96	334 58	8.40	326.18	---	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW 3	10/12/90	335 13	10.08	325.05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW 3	11/15/90	335 13	10.12	325.01	76	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-3	12/11/90	335 13	9.92	325.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/15/90	335 13	9.84	325.29	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SUP
MW-3	05/14/91	335 13	8.40	326.73	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SUP
MW-3	08/23/91	335 13	10.27	324.86	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	ANA
MW-3	11/13/91	335 13	10.27	324.86	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SEQ
MW-3	02/25/92	335 13	8.15	326.98	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	SEQ
MW-3	04/15/92	335 13	8.63	326.50	---	---	---	---	---	---	---	---	---	---	---
MW 3	06/03/92	335 13	9.18	325.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-3	08/12/92	335 13	10.18	324.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW 3	11/10/92	335 13	10.78	324.35	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-3	02/10/93	335 13	7.16	327.97	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	PACE
MW-3	05/21/93	335 13	7.69	327.44	---	---	---	---	---	---	---	---	---	---	---
MW-3	08/12/93	335 13	9.11	326.02	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-3	11/11/93	335 13	9.78	325.35	---	---	---	---	---	---	---	---	---	---	---
MW 3	02/11/94	335 13	8.60	326.53	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-3	05/17/94	335 13	8.34	326.79	---	---	---	---	---	---	---	---	---	---	---
MW-3	06/20/94	335 13	7.45	327.68	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/04/94	335 13	9.81	325.32	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	7.5	PACE
MW-3 (d)	11/18/94	335 13	8.62	326.51	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/15/95	335 13	6.61	328.52	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
MW-3	05/24/95	335 13	6.83	328.30	---	---	---	---	---	---	---	---	---	---	---
MW-3	08/29/95	335 13	8.88	326.25	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	9.1	ATI
MW-3	11/28/95	335 13	8.57	326.56	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/26/96	335 13	5.15	329.98	---	---	---	---	---	---	---	---	---	---	---
MW-3	05/23/96	335 13	7.26	327.87	---	---	---	---	---	---	---	---	---	---	---
MW-3	08/23/96	335 13	6.84	328.29	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	6.8	SPL
MW-3	12/02/96	335 13	8.61	326.52	---	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
AW-4	11/15/90	333.41	8.51	324.90	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-4	12/11/90	333.41	9.19	324.22	---	---	---	---	---	---	---	---	---	---	---
AW-4	02/15/91	333.41	8.32	325.09	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-4	05/14/91	333.41	6.97	326.44	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-4	08/23/91	333.41	8.59	324.82	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	ANA
AW-4	11/13/91	333.41	8.57	324.84	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SEQ
AW-4	02/25/92	333.41	6.26	327.15	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SEQ
AW-4	04/15/92	333.41	7.05	326.36	---	---	---	---	---	---	---	---	---	---	---
AW-4	06/03/92	333.41	7.41	326.00	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-4	08/12/92	333.41	8.45	324.96	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-4	11/10/92	333.41	9.10	324.31	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-4 (e)	02/10/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	---
AW-4 (e)	05/21/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	---
AW-4 (e)	08/12/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	---
AW-4	11/11/93	333.41	8.00	325.41	---	---	---	---	---	---	---	---	---	---	---
AW-4	11/15/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-4	02/11/94	333.41	6.84	326.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-4	05/17/94	333.41	6.54	326.87	---	---	---	---	---	---	---	---	---	---	---
AW-4	06/20/94	333.41	5.70	327.71	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	2.0	PACE
AW-4	10/04/94	333.41	8.04	325.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	6.1	PACE
AW-4 (d)	11/18/94	333.41	6.80	326.61	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	2.3	PACE
AW-4	02/15/95	333.41	4.91	328.50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
AW-4	05/24/95	333.41	5.32	328.09	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	4.9	ATI
AW-4	08/29/95	333.41	7.26	326.15	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	9.1	ATI
AW-4	11/28/95	333.41	7.81	325.60	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	5.3	ATI
AW-4	02/26/96	333.41	3.85	329.56	---	---	---	---	---	---	---	---	---	---	---
AW-4	05/23/96	333.41	5.17	328.24	---	---	---	---	---	---	---	---	---	---	---
AW-4	08/23/96	333.41	4.73	328.68	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	5.7	SPL
AW-4	12/02/96	333.41	6.43	326.98	---	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
AW-5	11/15/90	334.81	9.67	325.14	ND<50	---	1.3	ND<0.5	ND<0.5	1.0	---	---	---	---	ANA
AW-5	12/11/90	334.81	9.44	325.37	---	---	---	---	---	---	---	---	---	---	---
AW-5	02/15/91	334.81	10.00	324.81	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-5	05/14/91	334.81	8.64	326.17	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-5	08/23/91	334.81	9.58	325.23	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	ANA
AW-5	11/13/91	334.81	9.80	325.01	100	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SEQ
AW-5	02/25/92	334.81	7.89	326.92	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SEQ
AW-5	04/15/92	334.81	8.54	326.27	---	---	---	---	---	---	---	---	---	---	---
AW-5	06/03/92	334.81	8.97	325.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-5	08/12/92	334.81	9.73	325.08	61	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-5	11/10/92	331.81	10.27	324.54	99	---	ND<0.5	ND<0.5	ND<0.5	0.8	---	---	---	---	ANA
QC-1 (f)	11/10/92	---	---	---	86	---	ND<0.5	ND<0.5	ND<0.5	0.7	---	---	---	---	ANA
AW-5	02/10/93	331.81	7.29	327.52	82	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-5	05/21/93	334.81	7.77	327.04	---	---	---	---	---	---	---	---	---	---	---
AW-5	08/12/93	334.81	8.87	325.94	130	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-5	11/11/93	334.81	9.13	325.68	---	---	---	---	---	---	---	---	---	---	---
AW-5	11/12/93	---	---	---	180	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-5	02/11/94	334.81	8.20	326.61	210	---	16	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-5	05/17/94	334.81	8.16	326.65	---	---	---	---	---	---	---	---	---	---	---
AW-5	06/20/94	334.81	8.26	326.55	1300	---	0.9	ND<0.5	0.5	2.2	---	---	---	---	2.5 PACE
AW-5	10/04/94	334.81	8.70	326.11	670	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	6.0 PACE
AW-5 (d)	11/18/94	334.81	8.20	326.61	640	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	4.1 PACE
QC-1 (f)	11/21/94	---	---	---	660	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-5	02/15/95	334.81	6.65	328.16	220	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
AW-5	05/24/95	334.81	7.27	327.54	220	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	5.2 ATI
AW-5	08/29/95	334.81	8.70	326.11	190	---	ND<1.0	ND<1.0	ND<1.0	ND<2.0	---	---	---	---	8.5 ATI
AW-5	11/28/95	334.81	9.32	325.49	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	700	---	---	---	4.1 ATI
AW-5	02/26/96	334.81	7.13	327.68	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	670	---	---	---	8.1 SPL
AW-5	05/23/96	334.81	8.58	326.23	60	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	620	---	---	---	4.9 SPL
AW-5	08/23/96	334.81	8.18	326.63	520	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	520	---	---	---	5.1 SPL
QC-1 (f)	08/23/96	---	---	---	490	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	280	---	---	---	SPL
AW-5	12/02/96	334.81	7.90	326.91	390	---	ND<0.5	ND<1	ND<1	ND<1	600	---	---	---	5.6 SPL
QC-1 (f)	12/02/96	---	---	---	360	---	ND<0.5	ND<1	ND<1	ND<1	600	---	---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING / MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
AW-6	11/15/99	331.90	9.58	325.32	230	---	25	ND<0.5	ND<0.5	0.8	---	---	---	---	ANA
AW-6	12/11/99	331.90	9.58	325.32	---	---	---	---	---	---	---	---	---	---	---
AW-6	01/15/01	331.90	9.66	325.24	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-6	01/15/01	331.90	8.38	326.52	90	---	2	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-6	08/28/99	331.90	9.61	325.29	57	---	ND<0.5	0.7	1.3	4.6	---	---	---	---	ANA
AW-6	11/13/99	331.90	9.58	325.32	200	---	ND<0.3	ND<0.3	ND<0.3	0.94	---	---	---	---	SEQ
AW-6	01/25/99	331.90	8.00	326.90	19000	---	8000	4700	600	2400	---	---	---	---	SEQ
AW-6	03/05/92	331.90	7.98	326.92	14000	---	5200	2500	550	2200	---	---	---	---	SEQ
AW-6	04/15/92	331.90	8.33	326.57	1100	---	400	ND<3.0	30	ND<3.0	---	---	---	---	SEQ
AW-6	06/03/92	331.90	8.91	325.99	77	---	4.4	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-6	08/12/92	331.90	9.61	325.29	80	---	4.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-6	11/10/92	331.90	10.10	324.80	450	---	120	2.1	4.5	9.7	---	---	---	---	ANA
AW-6	01/10/93	331.90	7.13	327.77	14000	---	610	17	15	720	---	---	---	---	PACE
QC-1 (b)	01/10/93	-	---	---	12000	---	520	15	13	610	---	---	---	---	PACE
AW-6	05/21/93	331.90	7.64	327.26	7900	---	900	ND<12	20	ND<12	---	---	---	---	PACE
QC-1 (b)	05/21/93	-	---	---	7500	---	620	ND<10	13	ND<10	---	---	---	---	PACE
AW-6	08/12/93	331.90	8.64	326.26	26000	---	450	14	250	48	---	---	---	---	PACE
QC-1 (b)	08/12/93	-	---	---	27000	---	510	43	270	42	---	---	---	---	PACE
AW-6	11/11/93	331.90	8.67	326.23	---	---	---	---	---	---	---	---	---	---	---
AW-6	11/12/93	-	---	---	62000	---	4600	420	310	1100	---	---	---	---	PACE
QC-1 (b)	11/12/93	-	---	---	63000	---	4100	360	290	1000	---	---	---	---	PACE
AW-6	02/11/94	331.90	8.04	326.86	140000	---	21000	25000	1100	13000	---	---	---	---	PACE
QC-1 (L)	01/11/94	-	---	---	110000	---	17000	21000	770	10000	---	---	---	---	PACE
AW-6	01/17/94	331.90	7.68	327.22	---	---	---	---	---	---	---	---	---	---	---
AW-6	06/30/94	331.90	7.82	327.08	42000	---	2700	1300	1900	9100	---	---	---	2.1	PACE
QC-1 (b)	06/30/94	-	---	---	41000	---	2800	1400	1900	8900	---	---	---	---	PACE
AW-6	10/01/94	331.90	9.33	325.57	14000	---	2100	77	1000	760	---	---	---	6.1	PACE
QC-1 (b)	10/01/94	-	---	---	14000	---	2100	77	1100	790	---	---	---	---	PACE
AW-6 (b)	11/18/94	331.90	7.17	327.73	50000	---	550	8500	2500	14000	---	---	---	3.3	PACE
AW-6	01/15/95	331.90	6.19	328.71	25000	---	53	1400	1200	4400	---	---	---	---	ATI
QC-1 (b)	01/15/95	-	---	---	25000	---	53	1400	1200	4400	---	---	---	---	ATI
AW-6	01/21/95	331.90	6.87	328.03	14000	---	730	140	570	1100	---	---	---	5.7	ATI
QC-1 (b)	01/21/95	-	---	---	15000	---	750	140	570	1100	---	---	---	---	ATI
AW-6	08/29/95	331.90	8.38	326.52	8300	---	430	ND<10	340	40	---	---	---	8.9	ATI
QC-1 (b)	08/29/95	-	---	---	9400	---	430	12	360	37	---	---	---	---	ATI
AW-6	11/28/95	331.90	9.20	325.70	4700	---	300	13	61	ND<20	3600	---	---	3.0	ATI
QC-1 (b)	11/28/95	-	---	---	5200	---	310	12	78	ND<20	3800	---	---	---	ATI
AW-6	02/26/96	331.90	5.78	329.12	3600	---	17	29	110	1100	68	---	---	8.0	SPL
QC-1 (b)	02/26/96	-	---	---	3600	---	17	28	100	1050	63	---	---	---	SPL
AW-6	05/23/96	331.90	6.94	327.96	1800	---	390	ND<2.5	76	49	560	---	---	5.2	SPL
QC-1 (b)	05/23/96	-	---	---	1800	---	380	ND<2.5	72	44	550	---	---	---	SPL
AW-6	08/23/96	331.90	6.50	328.40	2300	---	54	ND<1.0	ND<1.0	ND<1.0	4240	---	---	6.3	SPL
AW-6	12/02/96	331.90	8.46	326.44	1500	---	27	ND<1	ND<1	ND<1	1700	---	---	7.2	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
QC-2 (g)	11/10/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
QC-2 (g)	02/10/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	05/21/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	08/12/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	11/12/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	02/11/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	06/20/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/04/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	11/21/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	02/15/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	05/24/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	08/29/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	11/28/95	---	---	---	ND<50	---	ND<0.50	1.6	ND<0.50	1.2	ND<5.0	---	---	---	ATI
QC-2 (g)	02/26/96	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	05/23/96	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	---	---	---	SPL

ABBREVIATIONS

TPH G	Total petroleum hydrocarbons as gasoline
TPH D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
TOG	Total oil and grease
HVOC	Halogenated volatile organic compounds
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not applicable/analyzed/measured
ANA	Anametrix, Inc
SUP	Superior Analytical Laboratory
SEQ	Sequota Analytical Laboratory
PACE	Pace, Inc
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed in reference to the City of Dublin monument at the intersection of Village Parkway and Amador Valley Boulevard, with an elevation of 335.92 feet above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Methylene chloride.
- (d) Groundwater samples collected on November 21, 1994.
- (e) Well buried.
- (f) Blind duplicate.
- (g) Travel blank.

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
UNOCAL CORPORATION SERVICE STATION
7375 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (mg/l)	LAB
MW 1	08/12/92	336.72	11.32	325.40	---	---	---	---	---	---	---	---	---
MW 1	11/10/92	336.72	11.97	324.75	---	---	---	---	---	---	---	---	---
MW 1	02/10/93	336.72	8.63	328.09	---	---	---	---	---	---	---	---	---
MW 1	05/10/93	336.72	9.57	327.15	---	---	---	---	---	---	---	---	---
MW-1	08/12/93	336.72	10.55	326.17	---	---	---	---	---	---	---	---	---
MW 1	11/11/93	336.72	10.17	326.55	---	---	---	---	---	---	---	---	---
MW 1	02/11/94	336.07	9.72	326.35	---	---	---	---	---	---	---	---	---
MW-1	05/17/94	336.07	9.26	326.81	---	---	---	---	---	---	---	---	---
MW 1	08/25/94	336.07	10.58	325.49	---	---	---	---	---	---	---	---	---
MW 1	11/18/94	336.07	9.69	326.38	---	---	---	---	---	---	---	---	---
MW-1	02/15/95	336.07	7.80	328.27	---	---	---	---	---	---	---	---	---
MW 1	05/24/95	336.07	8.98	327.09	1300	---	28	ND<0.50	15	ND<0.50	---	---	SEQ
MW 1	08/25/95	336.07	9.68	326.39	530	2300	16	ND<0.50	22	13	---	---	SEQ
MW 1	11/28/95	336.07	10.45	325.62	650	---	15	ND<0.50	21	6.7	---	---	SEQ
MW 1	02/26/96	336.07	8.45	329.62	1900	---	40	ND<0.50	84	46	110	---	SEQ
MW 2	08/12/92	337.36	11.48	325.88	---	---	---	---	---	---	---	---	---
MW 2	11/10/92	337.36	12.15	325.21	---	---	---	---	---	---	---	---	---
MW 2	02/10/93	337.36	8.61	328.56	---	---	---	---	---	---	---	---	---
MW 2	05/10/93	337.36	9.75	327.61	---	---	---	---	---	---	---	---	---
MW 2	08/12/93	337.36	10.69	326.67	---	---	---	---	---	---	---	---	---
MW 2	11/11/93	337.36	10.51	326.85	---	---	---	---	---	---	---	---	---
MW 2	02/11/94	336.78	9.85	326.93	---	---	---	---	---	---	---	---	---
MW 2	05/17/94	336.78	9.31	327.47	---	---	---	---	---	---	---	---	---
MW 2	08/25/94	336.78	10.75	326.03	---	---	---	---	---	---	---	---	---
MW 2	11/18/94	336.78	9.95	326.83	---	---	---	---	---	---	---	---	---
MW-2	02/15/95	336.78	7.58	329.20	---	---	---	---	---	---	---	---	---
MW 2	05/24/95	336.78	8.33	328.45	---	---	---	---	---	---	---	---	---
MW 2	08/25/95	336.78	9.76	327.02	---	---	---	---	---	---	---	---	---
MW 2	11/28/95	336.78	10.65	326.13	---	---	---	---	---	---	---	---	---
MW 2	02/26/96	336.78	6.39	330.39	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
MW 3	08/12/92	337.53	11.64	325.89	---	---	---	---	---	---	---	---	---
MW 3	11/10/92	337.53	12.33	325.20	---	---	---	---	---	---	---	---	---
MW 3	02/10/93	337.53	8.95	328.58	---	---	---	---	---	---	---	---	---
MW 3	05/10/93	337.53	9.91	327.62	---	---	---	---	---	---	---	---	---
MW 3	08/12/93	337.53	10.89	326.64	---	---	---	---	---	---	---	---	---
MW-3	11/11/93	337.53	10.64	326.89	---	---	---	---	---	---	---	---	---
MW 3	02/11/94	336.98	10.01	326.97	---	---	---	---	---	---	---	---	---
MW 3	05/17/94	336.98	9.49	327.49	---	---	---	---	---	---	---	---	---
MW 3	08/25/94	336.98	10.93	326.05	---	---	---	---	---	---	---	---	---
MW-3	11/18/94	336.98	10.15	326.83	---	---	---	---	---	---	---	---	---
MW 3	02/15/95	336.98	7.62	329.36	---	---	---	---	---	---	---	---	---
MW 3	05/24/95	336.98	8.26	328.72	---	---	---	---	---	---	---	---	---
MW 3	08/25/95	336.98	10.03	326.95	---	---	---	---	---	---	---	---	---
MW 3	11/28/95	336.98	10.85	326.13	---	---	---	---	---	---	---	---	---
MW 3	02/26/96	336.98	6.39	330.59	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	SEQ

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
UNOCAL CORPORATION SERVICE STATION
7375 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet) (a)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l) (b)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (mg/l)	LAB
MW 4	08/12/92	337.00	11.62	325.38	---	---	---	---	---	---	---	---	---
MW 4	11/10/92	337.00	12.32	324.68	---	---	---	---	---	---	---	---	---
MW-4	02/10/93	337.00	8.94	328.06	---	---	---	---	---	---	---	---	---
MW 4	05/10/93	337.00	9.90	327.10	---	---	---	---	---	---	---	---	---
MW 4	08/12/93	337.00	10.90	326.10	---	---	---	---	---	---	---	---	---
MW 4	11/11/93	337.00	10.48	326.52	---	---	---	---	---	---	---	---	---
MW 4	02/11/94	336.43	(c) 10.10	326.33	---	---	---	---	---	---	---	---	---
MW-4	05/17/94	336.43	9.63	326.80	---	---	---	---	---	---	---	---	---
MW 4	08/25/94	336.43	10.94	325.49	---	---	---	---	---	---	---	---	---
MW-4	11/18/94	336.43	10.10	326.33	---	---	---	---	---	---	---	---	---
MW 4	02/15/95	336.43	8.12	328.31	---	---	---	---	---	---	---	---	---
MW 4	05/24/95	336.43	8.68	327.75	---	---	---	---	---	---	---	---	---
MW 4	08/25/95	336.43	10.08	326.35	---	---	---	---	---	---	---	---	---
MW-4	11/28/95	336.43	10.81	325.62	---	---	---	---	---	---	---	---	---
MW 4	02/26/96	336.43	6.75	329.68	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
MW 5	02/11/94	335.96	(c) 10.08	325.88	---	---	---	---	---	---	---	---	---
MW 5	05/17/94	335.96	9.24	326.72	---	---	---	---	---	---	---	---	---
MW 5	08/25/94	335.96	10.43	325.53	---	---	---	---	---	---	---	---	---
MW 5	11/18/94	335.96	10.09	325.87	---	---	---	---	---	---	---	---	---
MW 5	02/15/95	335.96	7.76	328.20	---	---	---	---	---	---	---	---	---
MW 5	05/24/95	335.96	7.98	327.98	14000	---	2200	ND<0.50	2200	ND<0.50	---	---	SEQ
MW-5	08/25/95	335.96	9.57	326.39	3100	---	43	ND<0.50	590	8.4	---	---	SEQ
MW 5	11/28/95	335.96	10.33	325.63	6400	---	320	ND<0.50	720	ND<0.50	---	---	SEQ
MW 5	02/26/96	335.96	7.15	328.81	2800	1600	(d) 75	ND<0.50	180	ND<0.50	74	---	SEQ
MW 5	05/23/96	335.96	8.65	327.31	71	190	(d) 7.9	ND<0.50	3.4	ND<0.50	43	---	SEQ
MW 5	08/23/96	335.96	10.02	325.94	350	140	(d) 22	1.0	13	3.0	56	---	SEQ
MW 5	11/22/96	335.96	10.16	325.80	---	---	---	---	---	---	---	---	---

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 MTBE Methyl tert butyl ether
 TOG Total oil and grease
 ug/l Micrograms per liter
 mg/l Milligrams per liter
 ND Not detected above reported detection limit
 - Not sampled/analyzed/available
 SEQ Sequoia Analytical Laboratory

NOTES:

- (a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
 (b) Groundwater elevations in feet above mean sea level.
 (c) Top of casing elevations surveyed to the nearest 0.01 foot relative to a brass disc stamped VL-PKAMVY 1997, on the westerly center island of Amador Valley Boulevard and Village Parkway, with an elevation of 337.40 feet above mean sea level.
 (d) Unidentified hydrocarbon <C15 considered to be gasoline and not diesel.

F:\NO10 01\1017-6-2B.WQ2

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 ARCO PRODUCTS SERVICE STATION 6041
 7249 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	LAB
MW-1	11/10/92	336.56	11.74	324.82	---	---	---	---	---	---	---
MW-1	02/10/93	336.56	9.66	326.90	---	---	---	---	---	---	---
MW-1	05/10/93	336.56	9.50	327.06	---	---	---	---	---	---	---
MW-1 (c)	08/12/93	336.56	---	---	---	---	---	---	---	---	---
MW-1	11/11/93	336.56	10.70	325.86	---	---	---	---	---	---	---
MW-1	02/11/94	336.56	10.35	326.21	---	---	---	---	---	---	---
MW-1	05/27/94	336.56	10.40	326.16	---	---	---	---	---	---	---
MW-1 (c)	08/25/94	336.56	---	---	---	---	---	---	---	---	---
MW-1	11/18/94	336.56	10.25	326.31	---	---	---	---	---	---	---
MW-1	02/15/95	336.56	8.53	328.03	---	---	---	---	---	---	---
MW-1	05/24/95	336.56	9.00	327.56	---	---	---	---	---	---	---
MW-1	08/25/95	336.56	6.93	329.63	780	2	ND<1	2	2	2500	CAS
MW-1	11/28/95	336.56	11.01	325.55	570	2.2	ND<0.5	1.4	0.9	---	CAS
MW-1	02/26/96	336.56	7.35	329.21	---	---	---	---	---	---	---
MW-1	05/23/96	336.56	8.73	327.83	560	8.5	ND<1	1.1	ND<1	3900	CAS
MW-1	08/23/96	336.56	10.25	326.31	860	ND<1	ND<1	ND<4	2	5600	CAS
MW-2	11/10/92	334.80	10.12	324.68	---	---	---	---	---	---	---
MW-2	02/10/93	334.80	7.30	327.50	---	---	---	---	---	---	---
MW-2	05/10/93	334.80	7.40	327.40	---	---	---	---	---	---	---
MW-2 (c)	08/12/93	334.80	---	---	---	---	---	---	---	---	---
MW-2	11/11/93	334.80	9.02	325.78	---	---	---	---	---	---	---
MW-2	02/11/94	334.80	8.59	326.21	---	---	---	---	---	---	---
MW-2	05/27/94	334.80	8.51	326.29	---	---	---	---	---	---	---
MW-2 (c)	08/25/94	334.80	---	---	---	---	---	---	---	---	---
MW-2	11/18/94	334.80	8.70	326.10	---	---	---	---	---	---	---
MW-2	02/15/95	334.80	6.75	328.05	---	---	---	---	---	---	---
MW-2	05/24/95	334.80	6.88	327.92	---	---	---	---	---	---	---
MW-2	08/25/95	334.80	7.91	326.89	150	6	ND<1	1	ND<1	2700	CAS
MW-2	11/28/95	334.80	9.06	325.74	ND<50	ND<0.5	ND<0.5	ND<0.5	0.8	---	CAS
MW-2	02/26/96	334.80	6.65	328.15	---	---	---	---	---	---	---
MW-2	05/23/96	334.80	6.90	327.90	540	140	ND<2.5	13	ND<2.5	4800	CAS
MW-2	08/23/96	334.80	8.45	326.35	180	0.8	2	0.7	2.6	4000	CAS

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 ARCO PRODUCTS SERVICE STATION 6041
 7249 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	LAB
MW-3	11/10/92	335.53	10.72	324.81	---	---	---	---	---	---	---
MW-3	02/10/93	335.53	7.87	327.66	---	---	---	---	---	---	---
MW-3	05/10/93	335.53	9.91	325.62	---	---	---	---	---	---	---
MW-3 (c)	08/12/93	335.53	---	---	---	---	---	---	---	---	---
MW-3	11/11/93	335.53	9.81	325.72	---	---	---	---	---	---	---
MW-3	02/11/94	335.53	9.60	325.93	---	---	---	---	---	---	---
MW-3	05/27/94	335.53	9.51	326.02	---	---	---	---	---	---	---
MW-3 (c)	08/25/94	335.53	---	---	---	---	---	---	---	---	---
MW-3	11/18/94	335.53	9.79	325.74	---	---	---	---	---	---	---
MW-3	02/15/95	335.53	8.55	326.98	---	---	---	---	---	---	---
MW-3	05/24/95	335.53	8.17	327.36	---	---	---	---	---	---	---
MW-3	08/25/95	335.53	9.27	326.26	210	3.6	ND<0.5	2.9	0.6	20000	CAS
MW-3	11/28/95	335.53	9.91	325.62	81	1.5	ND<0.5	1.4	ND<0.5	15000	CAS
MW-3	02/26/96	335.53	8.42	327.11	---	---	---	---	---	---	---
MW-3	05/23/96	335.53	7.70	327.83	6500	690	ND<10	120	14	8600	CAS
MW-3	08/23/96	335.53	9.25	326.28	1700	85	2.1	61	5.3	11000	CAS
MW-4	11/10/92	334.22	9.58	324.64	---	---	---	---	---	---	---
MW-4	02/10/93	334.22	6.80	327.42	---	---	---	---	---	---	---
MW-4	05/10/93	334.22	9.90	324.32	---	---	---	---	---	---	---
MW-4 (c)	08/12/93	334.22	---	---	---	---	---	---	---	---	---
MW-4	11/11/93	334.22	8.48	325.74	---	---	---	---	---	---	---
MW-4	02/11/94	334.22	8.15	326.07	---	---	---	---	---	---	---
MW-4	05/27/94	334.22	7.83	326.39	---	---	---	---	---	---	---
MW-4 (c)	08/25/94	334.22	---	---	---	---	---	---	---	---	---
MW-4	11/18/94	334.22	8.31	325.91	---	---	---	---	---	---	---
MW-4	02/15/95	334.22	7.85	326.37	---	---	---	---	---	---	---
MW-4	05/24/95	334.22	6.68	327.54	---	---	---	---	---	---	---
MW-4	08/25/95	334.22	6.93	327.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	CAS
MW-4	11/28/95	334.22	8.21	326.01	---	---	---	---	---	---	---
MW-4	02/26/96	334.22	6.65	327.57	---	---	---	---	---	---	---
MW-4	05/23/96	334.22	6.47	327.75	---	---	---	---	---	---	---
MW-4	08/23/96	334.22	7.66	326.56	---	---	---	---	---	---	---

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 ARCO PRODUCTS SERVICE STATION 6041
 7249 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	LAB
MW-5	11/10/92	335.87	11.02	324.85	---	---	---	---	---	---	---
MW-5	02/10/93	335.87	8.00	327.87	---	---	---	---	---	---	---
MW-5	05/10/93	335.87	8.64	327.23	---	---	---	---	---	---	---
MW-5 (c)	08/12/93	335.87	---	---	---	---	---	---	---	---	---
MW-5	11/11/93	335.87	10.09	325.78	---	---	---	---	---	---	---
MW-5	02/11/94	335.87	9.63	326.24	---	---	---	---	---	---	---
MW-5	05/27/94	335.87	9.60	326.27	---	---	---	---	---	---	---
MW-5 (c)	08/25/94	335.87	---	---	---	---	---	---	---	---	---
MW-5	11/18/94	335.87	9.65	326.22	---	---	---	---	---	---	---
MW-5	02/15/95	335.87	7.80	328.07	---	---	---	---	---	---	---
MW-5	05/24/95	335.87	8.10	327.77	---	---	---	---	---	---	---
MW-5	08/25/95	335.87	9.43	326.44	---	---	---	---	---	---	---
MW-5	11/28/95	335.87	10.12	325.75	---	---	---	---	---	---	---
MW-5	02/26/96	335.87	6.73	329.14	---	---	---	---	---	---	---
MW-5	05/23/96	335.87	7.87	328.00	---	---	---	---	---	---	---
MW-5	08/23/96	335.87	9.46	326.41	---	---	---	---	---	---	---
MW-6	11/10/92	335.84	11.03	324.81	---	---	---	---	---	---	---
MW-6	02/10/93	335.84	8.22	327.62	---	---	---	---	---	---	---
MW-6	05/10/93	335.84	8.85	326.99	---	---	---	---	---	---	---
MW-6 (c)	08/12/93	335.84	---	---	---	---	---	---	---	---	---
MW-6	11/11/93	335.84	10.02	325.82	---	---	---	---	---	---	---
MW-6	02/11/94	335.84	9.66	326.18	---	---	---	---	---	---	---
MW-6	05/27/94	335.84	9.69	326.15	---	---	---	---	---	---	---
MW-6 (c)	08/25/94	335.84	---	---	---	---	---	---	---	---	---
MW-6	11/18/94	335.84	9.54	326.30	---	---	---	---	---	---	---
MW-6	02/15/95	335.84	7.81	328.03	---	---	---	---	---	---	---
MW-6	05/24/95	335.84	8.35	327.49	---	---	---	---	---	---	---
MW-6	08/25/95	335.84	9.71	326.13	---	---	---	---	---	---	---
MW-6	11/28/95	335.84	10.28	325.56	---	---	---	---	---	---	---
MW-6	02/26/96	335.84	6.60	329.24	---	---	---	---	---	---	---
MW-6	05/23/96	335.84	8.05	327.79	---	---	---	---	---	---	---
MW-6	08/23/96	335.84	9.58	326.26	---	---	---	---	---	---	---

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 MTBE Methyl tert butyl ether
 ug/l Micrograms per liter
 - - Not analyzed/applicable/measured
 ND Not detected above reported detection limit
 CAS Columbia Analytical Services, Inc.

NOTES:

- (a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Data not available.

TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 SHELL OIL COMPANY SERVICE STATION
 7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-1	08/12/92	334.83	9.15	325.68	---	---	---	---	---	---
MW-1	11/10/92	334.83	10.04	324.79	---	---	---	---	---	---
MW-1	02/10/93	334.83	7.24	327.59	---	---	---	---	---	---
MW-1	05/10/93	334.83	7.78	327.05	---	---	---	---	---	---
MW-1	08/12/93	334.83	8.54	326.29	---	---	---	---	---	---
MW-1	11/11/93	334.83	8.56	326.27	---	---	---	---	---	---
MW-1	02/11/94	334.83	8.62	326.21	---	---	---	---	---	---
MW-1	05/17/94	334.83	7.96	326.87	---	---	---	---	---	---
MW-1	08/25/94	334.83	9.24	325.59	---	---	---	---	---	---
MW-1	11/23/94	334.83	8.74	326.09	---	---	---	---	---	---
MW-1	02/15/95	334.83	6.84	327.99	---	---	---	---	---	---
MW-1	05/24/95	334.83	7.91	326.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-1	08/25/95	334.83	8.11	326.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-1	08/23/96	334.83	8.23	326.60	---	---	---	---	---	---
MW-2	08/12/92	336.96	11.58	325.38	---	---	---	---	---	---
MW-2	11/10/92	336.96	12.05	324.91	---	---	---	---	---	---
MW-2	02/10/93	336.96	9.28	327.68	---	---	---	---	---	---
MW-2	05/10/93	336.96	9.65	327.31	---	---	---	---	---	---
MW-2	08/12/93	336.96	10.70	326.26	---	---	---	---	---	---
MW-2	11/11/93	336.96	11.36	325.60	---	---	---	---	---	---
MW-2	02/11/94	336.96	11.04	325.92	---	---	---	---	---	---
MW-2	05/17/94	336.96	10.29	326.67	---	---	---	---	---	---
MW-2	08/25/94	336.96	11.29	325.67	---	---	---	---	---	---
MW-2	11/23/94	336.96	10.92	326.04	---	---	---	---	---	---
MW-2	02/15/95	336.96	8.90	328.06	---	---	---	---	---	---
MW-2	05/24/95	336.96	10.02	326.94	70	3.9	ND<0.5	1.4	ND<0.5	NET
MW-2	08/25/95	336.96	10.24	326.72	ND<50	20	ND<0.5	ND<0.5	ND<0.5	NET
MW-2	08/23/96	336.96	10.29	326.67	---	---	---	---	---	---
MW-3	08/12/92	336.93	10.94	325.99	---	---	---	---	---	---
MW-3	11/10/92	336.93	11.84	325.09	---	---	---	---	---	---
MW-3	02/10/93	336.93	8.82	328.11	---	---	---	---	---	---
MW-3	05/10/93	336.93	8.88	328.05	---	---	---	---	---	---
MW-3	08/12/93	336.93	10.36	326.57	---	---	---	---	---	---
MW-3	11/11/93	336.93	10.64	326.29	---	---	---	---	---	---
MW-3	02/11/94	336.93	10.68	326.25	---	---	---	---	---	---
MW-3	05/17/94	336.93	9.92	327.01	---	---	---	---	---	---
MW-3	08/25/94	336.93	11.30	325.63	---	---	---	---	---	---
MW-3	11/23/94	336.93	10.48	326.45	---	---	---	---	---	---
MW-3	02/15/95	336.93	8.35	328.58	---	---	---	---	---	---
MW-3	05/24/95	336.93	9.67	327.26	380	200	1.7	ND<0.5	0.6	NET
MW-3	08/25/95	336.93	9.36	327.57	70	22	ND<0.5	4.1	ND<0.5	NET
MW-3	08/23/96	336.93	10.00	326.93	---	---	---	---	---	---

TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 SHELL OIL COMPANY SERVICE STATION
 7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-4	08/12/92	337.14	11.36	325.78	---	---	---	---	---	---
MW-4	11/10/92	337.14	12.12	325.02	---	---	---	---	---	---
MW-4	02/10/93	337.14	9.40	327.74	---	---	---	---	---	---
MW-4	05/10/93	337.14	9.54	327.60	---	---	---	---	---	---
MW-4	08/12/93	337.14	10.68	326.46	---	---	---	---	---	---
MW-4	11/11/93	337.14	11.97	325.17	---	---	---	---	---	---
MW-4	02/11/94	337.14	10.71	326.43	---	---	---	---	---	---
MW-4	05/17/94	337.14	10.30	326.84	---	---	---	---	---	---
MW-4	08/25/94	337.14	10.84	326.30	---	---	---	---	---	---
MW-4	11/23/94	337.14	10.78	326.36	---	---	---	---	---	---
MW-4	02/15/95	337.14	9.49	327.65	---	---	---	---	---	---
MW-4	05/24/95	337.14	10.73	326.41	---	---	---	---	---	---
MW-4	08/25/95	337.14	10.22	326.92	ND<50	2.4	ND<0.5	ND<0.5	ND<0.5	NET
MW-4	08/23/96	337.14	9.84	327.30	---	---	---	---	---	---
MW-5	08/12/92	334.96	9.40	325.56	---	---	---	---	---	---
MW-5	11/10/92	334.96	9.65	325.31	---	---	---	---	---	---
MW-5	02/10/93	334.96	7.97	326.99	---	---	---	---	---	---
MW-5	05/10/93	334.96	7.76	327.20	---	---	---	---	---	---
MW-5	08/12/93	334.96	8.75	326.21	---	---	---	---	---	---
MW-5	11/11/93	334.96	9.32	325.64	---	---	---	---	---	---
MW-5	02/11/94	334.96	8.97	325.99	---	---	---	---	---	---
MW-5	05/17/94	334.96	8.12	326.84	---	---	---	---	---	---
MW-5	08/25/94	334.96	9.19	325.77	---	---	---	---	---	---
MW-5	11/23/94	334.96	8.78	326.18	---	---	---	---	---	---
MW-5	02/15/95	334.96	6.88	328.08	---	---	---	---	---	---
MW-5	05/24/95	334.96	8.04	326.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-5	08/25/95	334.96	8.34	326.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-6	08/12/92	335.42	9.72	325.70	---	---	---	---	---	---
MW-6	11/10/92	335.42	10.56	324.86	---	---	---	---	---	---
MW-6	02/10/93	335.42	7.65	327.77	---	---	---	---	---	---
MW-6	05/10/93	335.42	8.10	327.32	---	---	---	---	---	---
MW-6	08/12/93	335.42	9.18	326.24	---	---	---	---	---	---
MW-6	11/11/93	335.42	9.38	326.04	---	---	---	---	---	---
MW-6	02/11/94	335.42	9.02	326.40	---	---	---	---	---	---
MW-6	05/17/94	335.42	8.58	326.84	---	---	---	---	---	---
MW-6	08/25/94	335.42	9.79	325.63	---	---	---	---	---	---
MW-6	11/23/94	335.42	9.20	326.22	---	---	---	---	---	---
MW-6	02/15/95	335.42	7.36	328.06	---	---	---	---	---	---
MW-6	05/24/95	335.42	8.80	326.62	280	22	ND<0.5	ND<0.5	ND<0.5	NET
QC-1 (c)	05/24/95	---	---	---	330	25	ND<0.5	ND<0.5	ND<0.5	NET
MW-6	08/25/95	335.42	8.50	326.92	150	16	3.2	9.1	4.0	NET
MW-6	08/23/96	335.42	8.88	326.54	---	---	---	---	---	---

TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 SHELL OIL COMPANY SERVICE STATION
 7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID)	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-7	08/12/92	333.23	8.65	324.58	---	---	---	---	---	---
MW-7	11/10/92	333.23	8.82	324.41	---	---	---	---	---	---
MW-7	02/10/93	333.23	6.06	327.17	---	---	---	---	---	---
MW-7	05/10/93	333.23	6.65	326.58	---	---	---	---	---	---
MW-7	08/12/93	333.23	6.83	326.40	---	---	---	---	---	---
MW-7	11/11/93	333.23	6.90	326.33	---	---	---	---	---	---
MW-7	02/11/94	333.23	6.12	327.11	---	---	---	---	---	---
MW-7	05/17/94	333.23	6.06	327.17	---	---	---	---	---	---
MW-7	08/25/94	333.23	6.76	326.47	---	---	---	---	---	---
MW-7	11/23/94	333.23	6.75	326.48	---	---	---	---	---	---
MW-7	02/15/95	333.23	5.40	327.83	---	---	---	---	---	---
MW-7	05/24/95	333.23	6.82	326.41	---	---	---	---	---	---
MW-7	08/25/95	333.23	6.46	326.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-8	08/12/92	335.80	9.82	325.98	---	---	---	---	---	---
MW-8	11/10/92	335.80	10.41	325.39	---	---	---	---	---	---
MW-8	02/10/93	335.80	7.35	328.45	---	---	---	---	---	---
MW-8	05/10/93	335.80	6.65	329.15	---	---	---	---	---	---
MW-8	08/12/93	335.80	6.83	328.97	---	---	---	---	---	---
MW-8	11/11/93	335.80	6.90	328.90	---	---	---	---	---	---
MW-8	02/11/94	335.80	6.12	329.68	---	---	---	---	---	---
MW-8	05/17/94	335.80	6.06	329.74	---	---	---	---	---	---
MW-8	08/25/94	335.80	6.76	329.04	---	---	---	---	---	---
MW-8	11/23/94	335.80	6.75	329.05	---	---	---	---	---	---
MW-8	02/15/95	335.80	5.40	330.40	---	---	---	---	---	---
MW-8	05/24/95	335.80	7.56	328.24	---	---	---	---	---	---
MW-8	08/25/95	335.80	8.60	327.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-9	08/12/92	334.57	8.97	325.60	---	---	---	---	---	---
MW-9	11/10/92	334.57	8.97	325.60	---	---	---	---	---	---
MW-9	02/10/93	334.57	7.20	327.37	---	---	---	---	---	---
MW-9	05/10/93	334.57	7.56	327.01	---	---	---	---	---	---
MW-9	08/12/93	334.57	8.25	326.32	---	---	---	---	---	---
MW-9	11/11/93	334.57	10.30	324.27	---	---	---	---	---	---
MW-9	02/11/94	334.57	8.88	325.69	---	---	---	---	---	---
MW-9	05/17/94	334.57	8.06	326.51	---	---	---	---	---	---
MW-9	08/25/94	334.57	8.79	325.78	---	---	---	---	---	---
MW-9	11/23/94	334.57	8.65	325.92	---	---	---	---	---	---
MW-9	02/15/95	334.57	7.36	327.21	---	---	---	---	---	---
MW-9	05/24/95	334.57	7.75	326.82	---	---	---	---	---	---
MW-9	08/25/95	334.57	7.90	326.67	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET

TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 SHELL OIL COMPANY SERVICE STATION
 7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW 10 (d)	---	---	---	---	---	---	---	---	---	---
MW-11	08/12/92	334.20	8.75	325.45	---	---	---	---	---	---
MW-11	11/10/92	334.20	9.47	324.73	---	---	---	---	---	---
MW-11	02/10/93	334.20	6.79	327.41	---	---	---	---	---	---
MW-11	05/10/93	334.20	7.18	327.02	---	---	---	---	---	---
MW 11	08/12/93	334.20	8.10	326.10	---	---	---	---	---	---
MW-11	11/11/93	334.20	8.56	325.64	---	---	---	---	---	---
MW-11	02/11/94	334.20	8.21	325.99	---	---	---	---	---	---
MW-11	05/17/94	334.20	7.61	326.59	---	---	---	---	---	---
MW-11	08/25/94	334.20	8.68	325.52	---	---	---	---	---	---
MW-11	11/23/94	334.20	8.27	325.93	---	---	---	---	---	---
MW-11	02/15/95	334.20	6.46	327.74	---	---	---	---	---	---
MW 11	05/24/95	334.20	7.69	326.51	---	---	---	---	---	---
MW-11	08/25/95	334.20	7.70	326.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-12	08/12/92	332.53	9.83	322.70	---	---	---	---	---	---
MW-12	11/10/92	332.53	8.32	324.21	---	---	---	---	---	---
MW-12	02/10/93	332.53	6.75	325.78	---	---	---	---	---	---
MW-12 (e)	05/10/93	332.53	---	332.53	---	---	---	---	---	---
MW-12	08/12/93	332.53	6.23	326.30	---	---	---	---	---	---
MW-12	11/11/93	332.53	7.43	325.10	---	---	---	---	---	---
MW-12	02/04/94	332.53	7.18	325.35	---	---	---	---	---	---
MW 12	05/17/94	332.53	6.80	325.73	---	---	---	---	---	---
MW 12	08/25/94	332.53	7.24	325.29	---	---	---	---	---	---
MW-12	11/23/94	332.53	7.16	325.97	---	---	---	---	---	---
MW-12	02/15/95	332.53	5.16	327.37	---	---	---	---	---	---
MW-12	05/24/95	332.53	6.95	325.58	---	---	---	---	---	---
MW-12	08/25/95	332.53	5.63	326.90	---	---	---	---	---	---

TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
SHELL OIL COMPANY SERVICE STATION
7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-13	08/12/92	335.64	10.91	324.73	---	---	---	---	---	---
MW-13	11/10/92	335.64	10.69	324.95	---	---	---	---	---	---
MW-13	02/10/93	335.64	7.49	328.15	---	---	---	---	---	---
MW-13	05/10/93	335.64	8.06	327.58	---	---	---	---	---	---
MW-13	08/12/93	335.64	8.73	326.91	---	---	---	---	---	---
MW-13	11/11/93	335.64	9.15	326.49	---	---	---	---	---	---
MW-13	02/11/94	335.64	9.12	326.52	---	---	---	---	---	---
MW-13	05/17/94	335.64	8.62	327.02	---	---	---	---	---	---
MW-13	08/25/94	335.64	9.32	326.32	---	---	---	---	---	---
MW-13	11/23/94	335.64	9.37	326.27	---	---	---	---	---	---
MW-13	02/15/95	335.64	8.42	327.22	---	---	---	---	---	---
MW-13	05/24/95	335.64	9.90	325.74	230	32	1.2	1.1	2.5	NET
MW-13	08/25/95	335.64	8.32	327.32	930	320	17	48	36	NET
MW-13	08/23/96	335.64	8.66	326.98	---	---	---	---	---	---
RW-1 (f)	02/11/94	336.19	9.98	326.21	---	---	---	---	---	---
RW-1 (f)	05/17/94	336.19	9.29	326.90	---	---	---	---	---	---
RW-1 (f)	08/25/94	336.19	10.56	325.63	---	---	---	---	---	---
RW-1 (f)	11/23/94	336.19	10.07	326.12	---	---	---	---	---	---
RW-1 (f)	02/15/95	336.19	8.20	327.99	---	---	---	---	---	---
RW-1 (f)	05/24/95	336.19	9.66	326.53	---	---	---	---	---	---
RW-1 (f)	08/25/95	336.19	9.37	326.82	---	---	---	---	---	---
QC-2 (g)	05/24/95	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET

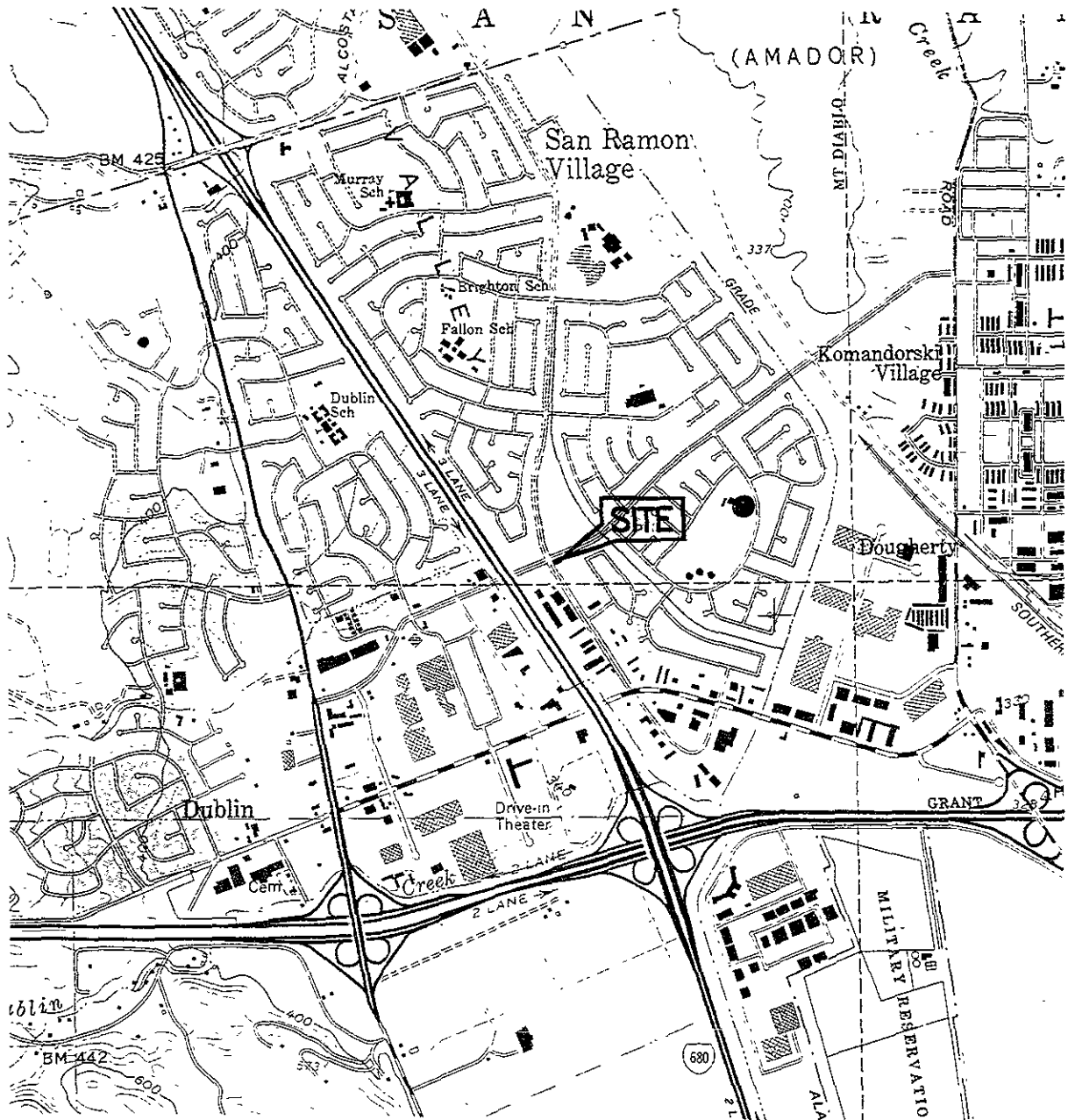
ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ug/l	Micrograms per liter
ND	Not detected above reported detection limit
---	Not analyzed/available
NET	National Environmental Testing, Inc.

NOTES:

- (a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Blind duplicate.
- (d) Monitoring Well MW-10 was destroyed.
- (e) Well inaccessible due to parked car.
- (f) Location of well is unknown.
- (g) Trip blank.

FA010 017017-6-2C.WQ2



SOURCE:
 USGS MAP, DUBLIN QUADRANGLE,
 CALIFORNIA, 7.5 MINUTE SERIES, 1961.
 PHOTOREVISED 1980

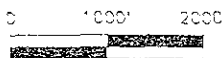


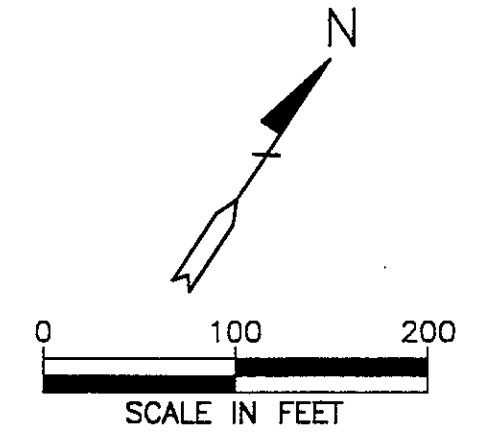
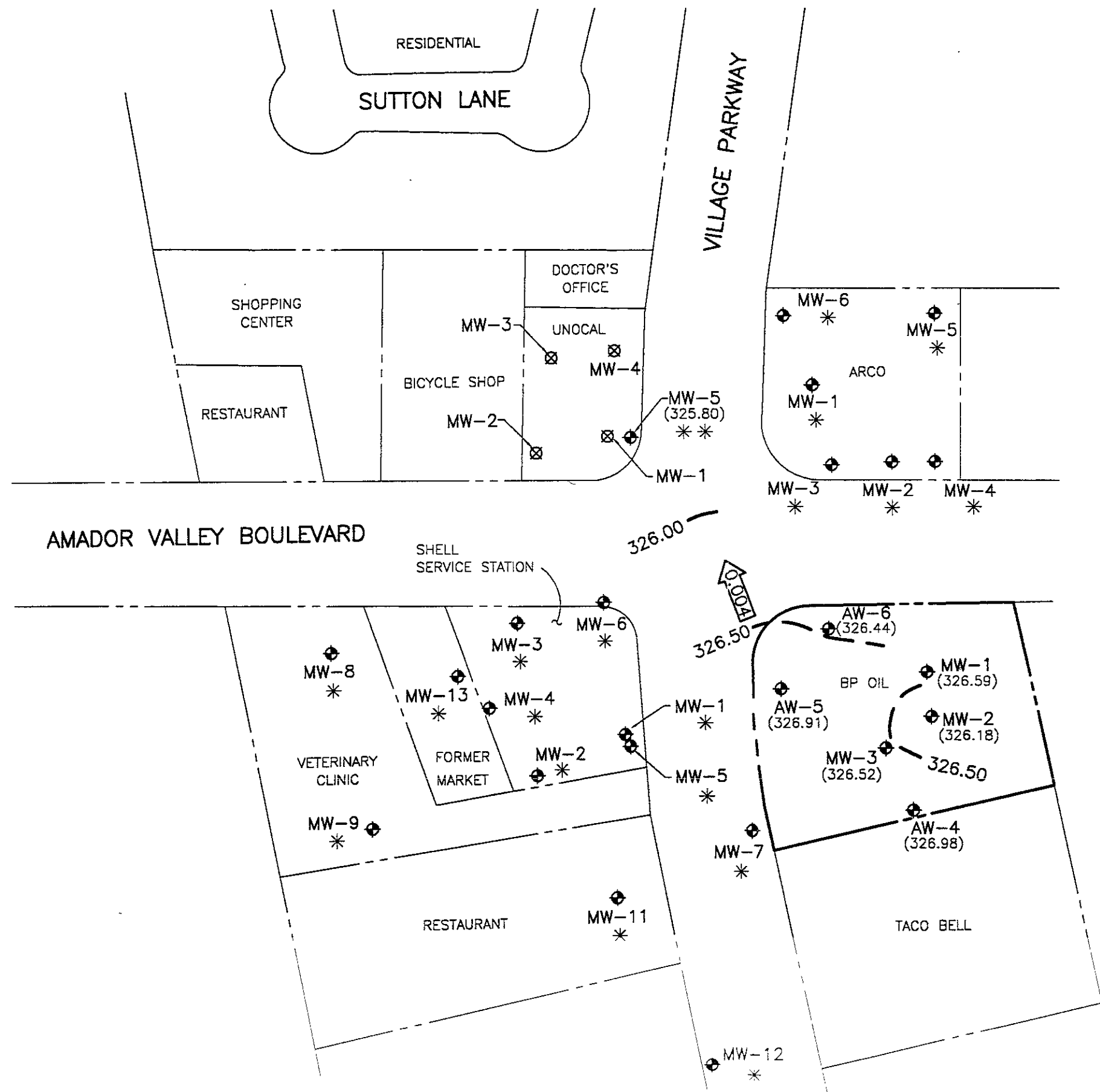
FIGURE 1

SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

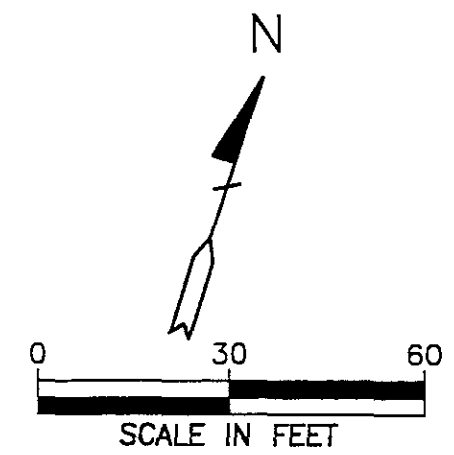
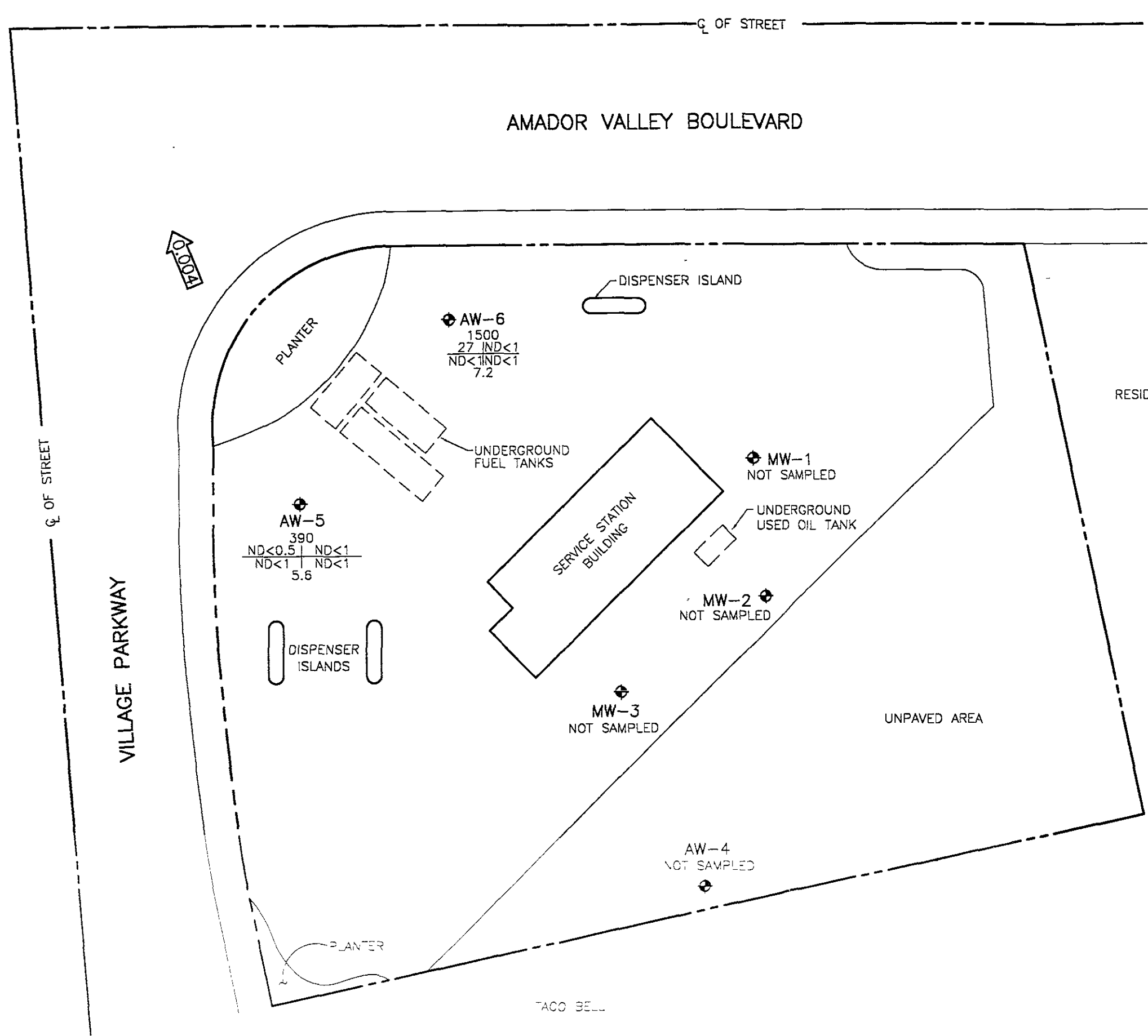


ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ⊕ GROUNDWATER MONITORING WELL
 - ⊗ DESTROYED WELL
 - (326.44) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 326.50 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL-0.50 FOOT)
 - ← 0.004 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
 - * DATA NOT AVAILABLE
 - ** MONITORING OCCURRED ON NOVEMBER 22, 1996

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 DECEMBER 2, 1996
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
- B | T
- E | X
- DO
- TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- DO DISSOLVED OXYGEN
- ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT
- ←0.004 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
 DECEMBER 2, 1996
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

10017E TUBING 2.4.97 0244 1.4.98

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No.

10-017-06-002

Date:

12/2/96

Address

7197 Village Parkway

Day:

MTWTF

Contract No.

G797520

City:

Dublin

Station No.

BP 11116

Sampler:

LB

DEPTH TO GROUNDWATER SUMMARY

* Alarm is in non Alarm Mode

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS:
MW-1	MIS	2"	25.80'	8.58	Ø	1220	NS
MW-2		2"	25.45'	8.40		1222	NS
MW-3		2"	25.90'	8.61		1224	NS
AW-4	✓	4"	34.15'	6.43		1228	NS
AW-5	S-2	4"	32.90'	7.90		1231	DC-1 (S-3) From this well
AW-6	S-1	4"	16.50'	8.46	✓	1230	ORC Well

FIELD INSTRUMENT CALIBRATION DATA

pH METER Jan 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED N TIME 1220 WEATHER cloudy

D.O. METER Jan ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE 760 TEMP 57

CONDUCTIVITY METER Jan 10,000 TURBIDITY METER 5.0 NTU OTHER Ø

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
AW-6	8.46	4"	OR	Ø	Y	(N)	5	1249	67.4	7.73	1.11ms	7.2
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.							10		66.0	7.60	1.03ms	
$16.50 - 8.46 = 8.04 \times 6.5 = 5.23 \times 3 = 15.69$							16	1257	65.6	7.54	.97ms	7.2
Purge Method <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> OSys Port												
Comments:												

- EPA 601
 - TPH-G/BTEX Acc
 - TPH Diesel
 - TOG 5520
- TIME/SAMPLE ID

1300

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
AW-5	7.90	4"	OR	Ø	Y	(N)	16	1401	66.4	7.19	1.90ms	5.3
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.							32		65.4	7.03	1.72ms	
$32.90 - 7.90 = 25.00 \times 6.5 = 16.25 \times 3 = 49.75$							49	1407	65.0	6.93	1.77ms	5.3
Purge Method <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> OSys Port												
Comments: DC-1 (S-3) From this well												

- EPA 601
 - TPH-G/BTEX Acc
 - TPH Diesel
 - TOG 5520
- TIME/SAMPLE ID

1410

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 96-12-144

Approved for Release by:



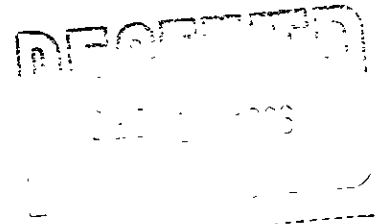
Ed Fry, Project Manager



Date:

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer



The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9612144-01

BP Oil Company
 295 SW 41st St, Bldg 13, Ste N
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 G-797520 , COC#078796
 DATE: 12/11/96

PROJECT: BP Oil #11116
 SITE: Dublin, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-1

PROJECT NO: 10-017-6-2
 MATRIX: WATER
 DATE SAMPLED: 12/02/96
 DATE RECEIVED: 12/04/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1700	100 P	µg/L
Benzene	27	0.5 P	µg/L
Toluene	ND	1 P	µg/L
Ethylbenzene	ND	1 P	µg/L
Total Xylene	ND	1 P	µg/L

Surrogate

% Recovery

1,4-Difluorobenzene 107
 4-Bromofluorobenzene 97

METHOD 8020***

Analyzed by: LJ

Date: 12/09/96

Total Petroleum Hydrocarbons-Gasoline 1.5 0.05 P mg/L

Surrogate

% Recovery

1,4-Difluorobenzene 110
 4-Bromofluorobenzene 123

CA LUFT - Gasoline

Analyzed by: LJ

Date: 12/09/96 11:21:00

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA.
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9612144-02

BP Oil Company
 295 SW 41st St, Bldg 13, Ste N
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 G-797520 , COC#078796
 DATE: 12/11/96

PROJECT: BP Oil #11116
 SITE: Dublin, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-2

PROJECT NO: 10-017-6-2
 MATRIX: WATER
 DATE SAMPLED: 12/02/96
 DATE RECEIVED: 12/04/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	600	50 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1 P	µg/L
Ethylbenzene	ND	1 P	µg/L
Total Xylene	ND	1 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	107
4-Bromofluorobenzene	93

METHOD 8020***

Analyzed by: LJ

Date: 12/09/96

Total Petroleum Hydrocarbons-Gasoline	0.39	0.05 P	mg/L
---------------------------------------	------	--------	------

Surrogate	% Recovery
1,4-Difluorobenzene	107
4-Bromofluorobenzene	107

CA LUFT - Gasoline

Analyzed by: LJ

Date: 12/09/96 11:46:00

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9612144-03

BP Oil Company
 295 SW 41st St, Bldg 13, Ste N
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 G-797520 , COC#078796
 DATE: 12/11/96

PROJECT: BP Oil #11116
 SITE: Dublin, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-3

PROJECT NO: 10-017-6-2
 MATRIX: WATER
 DATE SAMPLED: 12/02/96
 DATE RECEIVED: 12/04/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	600	50 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1 P	µg/L
Ethylbenzene	ND	1 P	µg/L
Total Xylene	ND	1 P	µg/L
Surrogate		% Recovery	
1,4-Difluorobenzene	107		
4-Bromofluorobenzene	93		
METHOD 8020***			
Analyzed by: LJ			
Date: 12/09/96			
Total Petroleum Hydrocarbons-Gasoline	0.36	0.05 P	mg/L
Surrogate		% Recovery	
1,4-Difluorobenzene	107		
4-Bromofluorobenzene	107		
CA LUFT - Gasoline			
Analyzed by: LJ			
Date: 12/09/96 12:12:00			

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903

QUALITY CONTROL

DOCUMENTATION



AMOUNT CONC. RECOVERY
ADDED MEASURED

LIMITS

METHOD 8020***

BATCH#:HP_0961208224000

WORK ORDER: 9612144-01A

CLIENT SAMPLE ID:S-1

1,4-Difluorobenzene	30	35	117	70-	131
4-Bromofluorobenzene	30	31	103	43-	135

METHOD 8020***

BATCH#:HP_0961208224000

WORK ORDER: 9612144-01A

CLIENT SAMPLE ID:S-1

1,4-Difluorobenzene	30	32.0000	107	70-	131
4-Bromofluorobenzene	30	29.0000	97	43-	135

METHOD 8020***

BATCH#:HP_0961208224000

WORK ORDER: 9612144-02A

CLIENT SAMPLE ID:S-2

1,4-Difluorobenzene	30	32	107	70-	131
4-Bromofluorobenzene	30	29	97	43-	135

METHOD 8020***

BATCH#:HP_0961208224000

WORK ORDER: 9612144-02A

CLIENT SAMPLE ID:S-2

1,4-Difluorobenzene	30	32.0000	107	70-	131
4-Bromofluorobenzene	30	28.0000	93	43-	135

METHOD 8020***

BATCH#:HP_0961208224000

WORK ORDER: 9612144-03A

CLIENT SAMPLE ID:S-3

1,4-Difluorobenzene	30	32	107	70-	131
4-Bromofluorobenzene	30	29	97	43-	135

METHOD 8020***

BATCH#:HP_0961208224000

WORK ORDER: 9612144-03A

CLIENT SAMPLE ID:S-3

1,4-Difluorobenzene	30	32.0000	107	70-	131
4-Bromofluorobenzene	30	28.0000	93	43-	135

METHOD 8020A ***

BATCH#:HP_0961208224000

WORK ORDER: Method Blank

CLIENT SAMPLE ID:

1,4-Difluorobenzene	30	32	107	74-	131
4-Bromofluorobenzene	30	29	97	43-	135

METHOD 8020A ***

BATCH#:HP_0961208224000

WORK ORDER: Matrix Spike

CLIENT SAMPLE ID:9612388-09A

1,4-DIFLUOROBENZENE	30	32	107	70-	131
---------------------	----	----	-----	-----	-----



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

AMOUNT CONC. RECOVERY
ADDED MEASURED

LIMITS

4-BROMOFLUOROBENZENE	30	29	97	43-	135
----------------------	----	----	----	-----	-----

METHOD 8020A ***

BATCH#:HP_0961208224000

WORK ORDER: Matrix Spike Dup.

CLIENT SAMPLE ID:9612388-09A

1,4-Difluorobenzene	30	32	107	70-	131
4-Bromofluorobenzene	30	30	100	43-	135

CA LUFT - Gasoline

BATCH#:HP_0961208233100

WORK ORDER: 9612144-01A

CLIENT SAMPLE ID:S-1

1,4-Difluorobenzene	30	33	110	50-	150
4-Bromofluorobenzene	30	37	123	50-	150

CA LUFT - Gasoline

BATCH#:HP_0961208233100

WORK ORDER: 9612144-02A

CLIENT SAMPLE ID:S-2

1,4-Difluorobenzene	30	32	107	50-	150
4-Bromofluorobenzene	30	32	107	50-	150

CA LUFT - Gasoline

BATCH#:HP_0961208233100

WORK ORDER: 9612144-03A

CLIENT SAMPLE ID:S-3

1,4-Difluorobenzene	30	32	107	50-	150
4-Bromofluorobenzene	30	32	107	50-	150

Modified 8015 - Gasoline

BATCH#:HP_0961208233100

WORK ORDER: Method Blank

CLIENT SAMPLE ID:

4-Bromofluorobenzene	30	32	107	52-	152
1,4-Difluorobenzene	30	32	107	54-	137

Modified 8015 - Gasoline

BATCH#:HP_0961208233100

WORK ORDER: Matrix Spike

CLIENT SAMPLE ID:9612388-10A

4-Bromofluorobenzene	30	35	117	52-	152
1,4-Difluorobenzene	30	37	123	54-	137

Modified 8015 - Gasoline

BATCH#:HP_0961208233100

WORK ORDER: Matrix Spike Dup.

CLIENT SAMPLE ID:9612388-10A

4-Bromofluorobenzene	30	34	113	52-	152
1,4-Difluorobenzene	30	36	120	54-	137



12/11/96 15:00:38

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

AMOUNT CONC. RECOVERY
ADDED MEASURED

LIMITS

-
- « = Recovery outside of control limits
 - * = Methods for Chemical Analysis of Water & Wastes, 1983, EPA
 - ** = Standard Methods for Examination of Water & Wastewater, 17th
 - *** = Test Methods for Evaluating Solid Waste, EPA SW846, 3rd



SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020/602

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous
Units: µg/L

Batch Id: HP_0961208224000

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) ‡ Recovery Range
			Result	Recovery	
			<1>	‡	
MTBE	ND	50	53	106	63 - 120
Benzene	ND	50	41	82.0	62 - 121
Toluene	ND	50	47	94.0	66 - 136
EthylBenzene	ND	50	49	98.0	70 - 136
O Xylene	ND	50	48	96.0	74 - 134
M & P Xylene	ND	100	96	96.0	77 - 140

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result	Recovery	Result	Recovery		RPD Max.	Recovery Range
			<1>	<4>	<1>	<5>			
MTBE	ND	20	23	115	23	115	0	20	39 - 150
BENZENE	ND	20	18	90.0	18	90.0	0	25	39 - 150
TOLUENE	ND	20	18	90.0	18	90.0	0	26	56 - 134
ETHYLBENZENE	ND	20	19	95.0	18	90.0	5.41	38	61 - 128
O XYLENE	ND	20	19	95.0	19	95.0	0	29	40 - 130
M & P XYLENE	ND	40	38	95.0	39	97.5	2.60	20	43 - 152

Analyst: LJ

* = Values Outside QC Range

Sequence Date: 12/08/96

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

SPL ID of sample spiked: 9612388-09A

ND = Not Detected/Below Detection Limit

Sample File ID: OOL6342.TX0

‡ Recovery = [(<1> - <2>) / <3>] x 100

Method Blank File ID:

LCS ‡ Recovery = (<1> / <3>) x 100

Blank Spike File ID: OOL6330.TX0

Relative Percent Difference = [(<4> - <5>) / [(<4> + <5>) x 0.5]] x 100

Matrix Spike File ID: OOL6336.TX0

(**) = Source: SPL-Houston Historical Data (3rd Q '95)

Matrix Spike Duplicate File ID: OOL6337.TX0

(***) = Source: SPL-Houston Historical Data (2nd Q '95)

SAMPLES IN BATCH(SPL ID):

9612388-13A 9612388-09A 9612388-10A 9612388-11A
 9612388-12A 9612144-01A 9612144-02A 9612144-03A
 9612146-01A 9612146-02A 9612388-06A 9612144-01A
 9612144-02A 9612144-03A 9612146-01A 9612146-02A
 9612146-03A 9612146-04A



SPL BATCH QUALITY CONTROL REPORT **
Modified 8015 - Gasoline

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous
Units: mg/L

Batch Id: HP_0961208233100

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) ‡ Recovery Range
			Result <1>	Recovery ‡	
Gasoline Petr. Hydrocarbon	ND	1.0	1.2	120	56 - 130

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative ‡ Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
GASOLINE PETR. HYDROCARBON	ND	0.9	0.98	109	0.83	92.2	16.7	22	37 - 169

Analyst: LJ

Sequence Date: 12/08/96

SPL ID of sample spiked: 9612388-10A

Sample File ID: O_L6343.TX0

Method Blank File ID:

Blank Spike File ID: O_L6333.TX0

Matrix Spike File ID: O_L6338.TX0

Matrix Spike Duplicate File ID: O_L6339.TX0

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

‡ Recovery = $[(<1> - <2>) / <3>] \times 100$

LCS ‡ Recovery = $(<1> / <3>) \times 100$

Relative Percent Difference = $|(<4> - <5> | / [(<4> + <5>) \times 0.5] \times 100$

(**) = Source: SPL-Houston Historical data (3rd Q '95)

(***) = Source: SPL-Houston Historical Data (3rd Q '95)

SAMPLES IN BATCH(SPL ID):

9612388-09A 9612388-10A 9612388-11A 9612388-12A
9612144-01A 9612144-02A 9612144-03A 9612146-01A
9612146-02A 9612388-06A 9612146-01A 9612146-02A
9612146-03A 9612146-04A 9612146-05A 9612163-01A
9612388-13A

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 12-4-94	Time: 0930
------------------	---------------

SPL Sample ID: 94-12-144

		<u>Yes</u>	<u>No</u>
1	Chain-of-Custody (COC) form is present.	✓	
2	COC is properly completed.	✓	
3	If no, Non-Conformance Worksheet has been completed.		
4	Custody seals are present on the shipping container.	✓	
5	If yes, custody seals are intact.	✓	
6	All samples are tagged or labeled.	✓	
7	If no, Non-Conformance Worksheet has been completed.		
8	Sample containers arrived intact	✓	
9	Temperature of samples upon arrival:	4° C	
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #)	9404779252
		Other:	
11	Method of sample disposal:	SPL Disposal	✓
		HOLD	
		Return to Client	

Name: 	Date: 12-4-94
-----------	------------------

**BP EXPLORATION & OIL, INC.
ENVIRONMENTAL REMEDIATION MANAGEMENT
DATA REVIEW CHECKLIST**

BP Site Number: 1116
 ERM Contact: SCOTT McCOY
 Sampling Date: 12/2/96
 Matrix Description: WATER
 Date Final Report Received: 12/17/96
 Laboratory & Location: SPX - HOUSTON, TX

	Yes	No	NA
1. Is BP contract release number consistent with analytical report?	<u>✓</u>	<u>_____</u>	<u>_____</u>
2. Was report submitted within the specified timeframe?	<u>✓</u>	<u>_____</u>	<u>_____</u>
3. Does report agree with the COC?	<u>✓</u>	<u>_____</u>	<u>_____</u>
4. Are units consistent with the given matrix?	<u>✓</u>	<u>_____</u>	<u>_____</u>
5. Were any target analytes/compounds detected in blanks (i.e., trip or equipment)?	<u>_____</u>	<u>_____</u>	<u>✓</u>
6. Are duplicate water samples within <u>30</u> %?	<u>✓</u>	<u>_____</u>	<u>_____</u>
7. Are holding times met?	<u>✓</u>	<u>_____</u>	<u>_____</u>
8. Are surrogates within limits using laboratory criteria?	<u>✓</u>	<u>_____</u>	<u>_____</u>
9. Are MS/MSD acceptable using laboratory criteria?	<u>✓</u>	<u>_____</u>	<u>_____</u>
10. Are LCS results acceptable using laboratory criteria?	<u>✓</u>	<u>_____</u>	<u>_____</u>

Notes: _____

Data Validation Completed by (print) Ken Simms
 (signature) [Signature]
 Date: 2/3/97