



BP OIL

BP Oil Company
Environmental Resources Management
Building 13, Suite N
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667
Fax No: (206) 251-0736

April 23, 1996

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

*next Qmtr will only
sample Aw-5 + Aw-6
OCC in Aw-6*

**ENVIRONMENTAL
PROTECTION**
96 APR 30 AM 9:40

**RE: BP OIL FACILITY #11116
7194 Village Parkway
Dublin CA**

Dear Ms. Chu:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED FEBRUARY 16, 1996** for the above referenced facility. Plans for the following quarter include additional groundwater monitoring.

If you should have any questions regarding this site, I may be reached at (206) 251-0689.

Respectfully,

Scott T. Hooton
Environmental Resources Management
Corrective Action Manager

STH:sb msword\ERM11116

cc: Mr. Eddy So, California Regional Water Quality Control Board, San Francisco Bay Region,
2101 Webster St. Suite 500, Oakland CA 94612

Mr. Brady Nagle, Alisto Engineering Group, 1575 Treat Blvd, Ste 201, Walnut Creek,
CA 94598

Mr. Kyle Christie, ARCO Products Company, 2155 South Bascom Ave, Ste 202, Campbell,
CA 95008

Mr. Larry Silva, TOSCO Northwest, 601 Union Street, Suite 2500, Seattle WA 98101

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-017-05-002

FEB 26

Prepared for:

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

ENVIRONMENTAL
PROTECTION
96 APR 30 AM 9:40

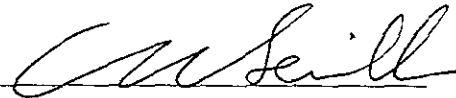
Prepared by:

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

February 16, 1996



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. 10-017-05-002

February 16, 1996

INTRODUCTION

This report presents the results and findings of the November 28, 1995 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.

Groundwater monitoring was performed concurrently at the neighboring Unocal Corporation service station, 7375 Amador Valley Boulevard; Shell Oil Company service station, 7194 Amador Valley Boulevard; and Arco Products Company service station, 7249 Village Parkway. The results of monitoring at these sites are presented in Tables 2, 3, and 4. Current data for the Shell station is not available.

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. 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.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples collected for 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 (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
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	---	---	---	---	---	---	---	---	---	---	---

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	---	---	---	---	---	---	---	---	---	---	---

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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
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	---	---	---	---	---	---	---	---	---	---	---

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 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

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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-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	334.81	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	334.81	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 (d)(f)	11/18/94	---	---	---	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

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 6	11/15/90	334.90	9.58	325.32	230	---	25	ND<0.5	ND<0.5	0.8	---	---	---	---	ANA
AW 6	12/11/90	334.90	9.58	325.32	---	---	---	---	---	---	---	---	---	---	---
AW-6	02/15/91	334.90	9.66	325.24	ND<50	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW 6	05/14/91	334.90	8.38	326.52	90	---	2	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW 6	08/23/91	334.90	9.61	325.29	57	---	ND<0.5	0.7	1.3	4.6	---	---	---	---	ANA
AW-6	11/13/91	334.90	9.58	325.32	200	---	ND<0.3	ND<0.3	ND<0.3	0.94	---	---	---	---	SEQ
AW-6	02/25/92	334.90	8.00	326.90	19000	---	8000	4700	600	2400	---	---	---	---	SEQ
AW-6	03/05/92	334.90	7.98	326.92	14000	---	5200	2500	550	2200	---	---	---	---	SEQ
AW 6	04/15/92	334.90	8.33	326.57	1100	---	400	ND<3.0	30	ND<3.0	---	---	---	---	SEQ
AW-6	06/03/92	334.90	8.91	325.99	77	---	4.4	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-6	08/12/92	334.90	9.61	325.29	80	---	4.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-6	11/10/92	334.90	10.10	324.80	450	---	120	2.1	4.5	9.7	---	---	---	---	ANA
AW 6	02/10/93	334.90	7.13	327.77	14000	---	610	17	15	720	---	---	---	---	PACE
QC-1 (f)	02/10/93	---	---	---	12000	---	520	15	13	610	---	---	---	---	PACE
AW 6	05/21/93	334.90	7.64	327.26	7900	---	900	ND<12	20	ND<12	---	---	---	---	PACE
QC-1 (f)	05/21/93	---	---	---	7500	---	620	ND<10	13	ND<10	---	---	---	---	PACE
AW-6	08/12/93	334.90	8.64	326.26	26000	---	450	14	250	48	---	---	---	---	PACE
QC-1 (f)	08/12/93	---	---	---	27000	---	510	43	270	42	---	---	---	---	PACE
AW 6	11/11/93	334.90	8.67	326.23	---	---	---	---	---	---	---	---	---	---	---
AW 6	11/12/93	---	---	---	62000	---	4600	420	310	1100	---	---	---	---	PACE
QC-1 (f)	11/12/93	---	---	---	63000	---	4100	360	290	1000	---	---	---	---	PACE
AW 6	02/11/94	334.90	8.04	326.86	140000	---	21000	25000	1100	13000	---	---	---	---	PACE
QC-1 (f)	02/11/94	---	---	---	110000	---	17000	21000	770	10000	---	---	---	---	PACE
AW-6	05/17/94	334.90	7.68	327.22	---	---	---	---	---	---	---	---	---	---	---
AW 6	06/20/94	334.90	7.82	327.08	42000	---	2700	1300	1900	9100	---	---	---	2.1	PACE
QC-1 (f)	06/20/94	---	---	---	41000	---	2800	1400	1900	8900	---	---	---	---	PACE
AW-6	10/04/94	334.90	9.33	325.57	14000	---	2100	77	1000	760	---	---	---	6.1	PACE
QC-1 (f)	10/04/94	---	---	---	14000	---	2100	77	1100	790	---	---	---	---	PACE
AW 6	11/18/94	334.90	7.17	327.73	50000	---	550	8500	2500	14000	---	---	---	3.3	PACE
AW-6	02/15/95	334.90	6.19	328.71	25000	---	53	1400	1200	4400	---	---	---	---	ATI
QC 1 (f)	02/15/95	---	---	---	25000	---	53	1400	1200	4400	---	---	---	---	ATI
AW 6	05/24/95	334.90	6.87	328.03	14000	---	730	140	570	1100	---	---	---	5.7	ATI
QC-1 (f)	05/24/95	---	---	---	15000	---	750	140	570	1100	---	---	---	---	ATI
AW 6	08/29/95	334.90	8.38	326.52	8300	---	430	ND<10	340	40	---	---	---	8.9	ATI
QC-1 (f)	08/29/95	---	---	---	9400	---	430	12	360	37	---	---	---	---	ATI
AW 6	11/28/95	334.90	9.20	325.70	4700	---	300	13	61	ND<20	3600	---	---	3.0	ATI
QC-1 (f)	11/28/95	---	---	---	5200	---	310	12	78	ND<20	3800	---	---	---	ATI

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) (a)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet) (b)	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	(d)(g) 11/18/94	---	---	---	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

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	Sequoia Analytical laboratory
PACE	Pace, Inc
ATI	Analytical Technologies, Inc.

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 (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)	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	(c) 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	2.2	13	SEQ
MW-1	11/28/95	336.07	10.45	325.62	650	---	15	ND<0.50	21	6.7	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	8.81	328.55	---	---	---	---	---	---	---
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	(c) 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-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	(c) 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	---	---	---	---	---	---	---

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 (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/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-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

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 ug/l Micrograms per liter
 ND Not detected above reported detection limit
 --- Not sampled/analyzed/available
 SI-Q 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.

FN010-017A017-5-2B.WQ2

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
SHELL OIL COMPANY SERVICE STATION
7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL (1)	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<0.50	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<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
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<0.50	20	ND<0.5	ND<0.5	ND<0.5	NET
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

TABLE 3 - 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-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	328.99	---	---	---	---	---	---
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

TABLE 3 - 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 3 - 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 (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<0.50	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	325.37	---	---	---	---	---	---
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 3 - 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 (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
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	---	---	---	---	---	---
OC-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.

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TABLE 4 - 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 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	---	---	---	---	---	---	---
MW-1	11/28/95	336.56	11.01	325.55	780 570	2 2.2	ND<1 ND<0.5	2 1.4	2 0.9	2500 ---	CAS 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	---	---	---	---	---	---	---
MW-2	11/28/95	334.80	9.06	325.74	150 ND<50	6 ND<0.5	ND<1 ND<0.5	1 ND<0.5	ND<1 0.8	2700 ---	CAS CAS

TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 ARCO PRODUCTS SERVICE STATION 6041
 7249 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

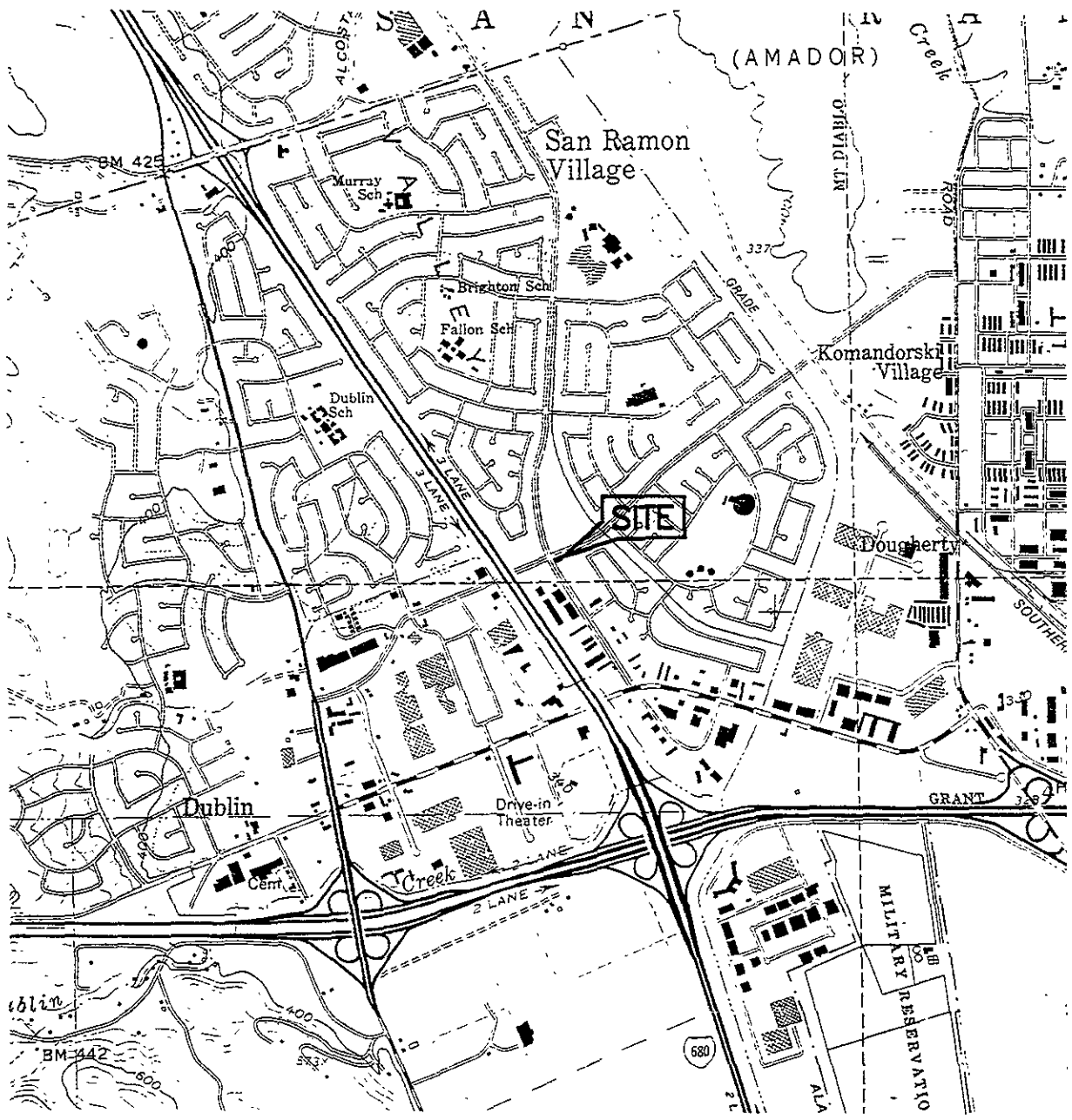
WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	LAB
MW-3	11/10/92	335.53	10.72	324.81	---	---	---	---	---	---	---
MW-3	02/10/93	335.53	7.87	327.66	---	---	---	---	---	---	---
MW-3	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-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	---	---	---	---	---	---	---

TABLE 4 - 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 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	09/09/1899	335.87	10.12	325.75	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---

TPH-G	Total petroleum hydrocarbons as gasoline	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.
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.	



SOURCE:
 USGS MAP, DUBLIN QUADRANGLE,
 CALIFORNIA, 7.5 MINUTE SERIES, 1961.
 P-CO REVISED 1980

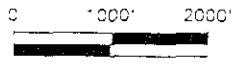


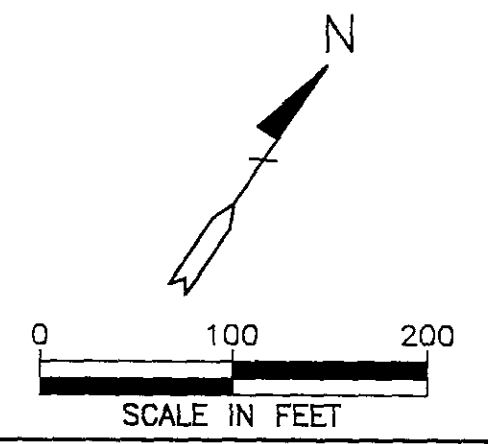
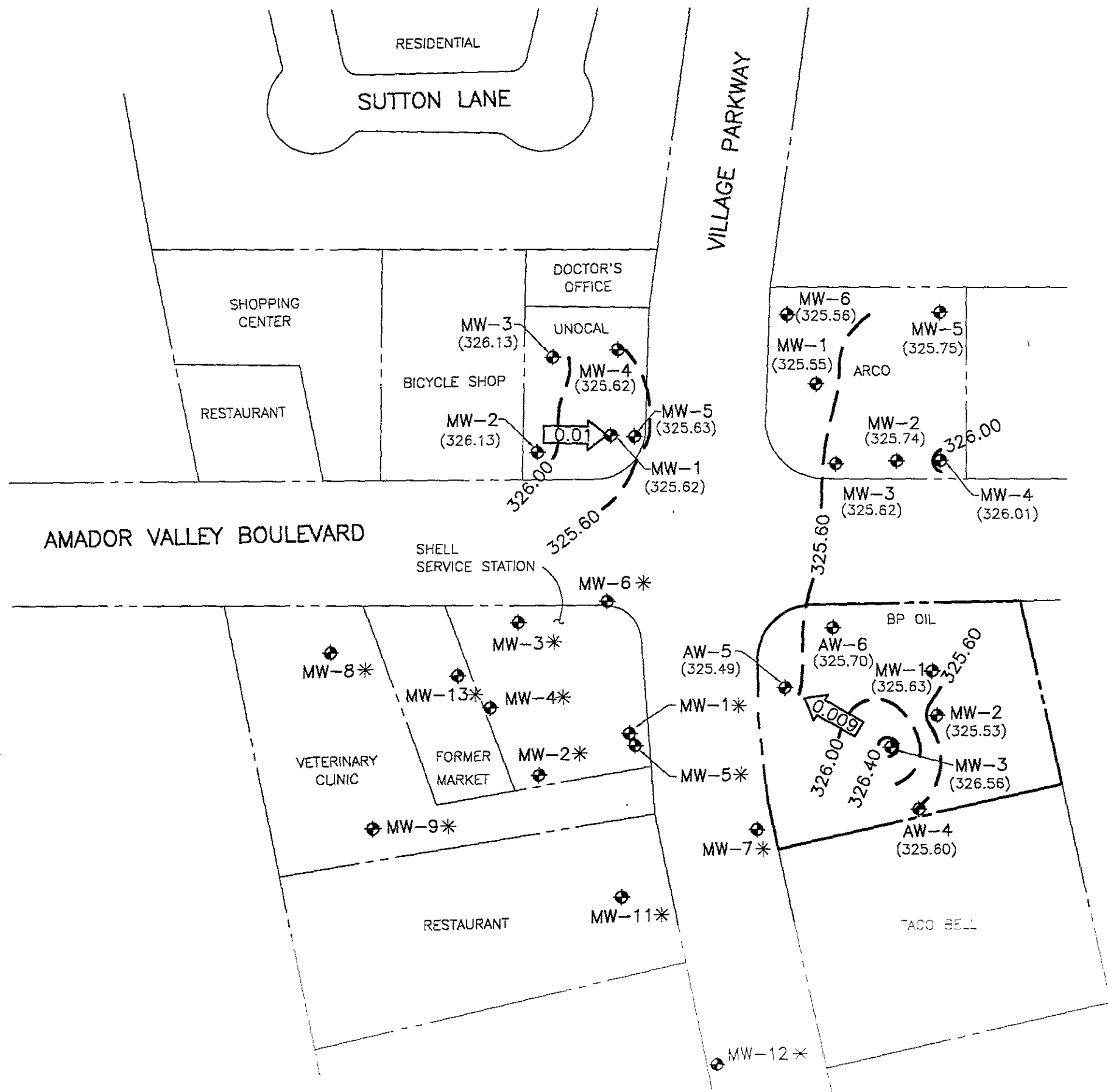
FIGURE 1

SITE VICINITY MAP

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



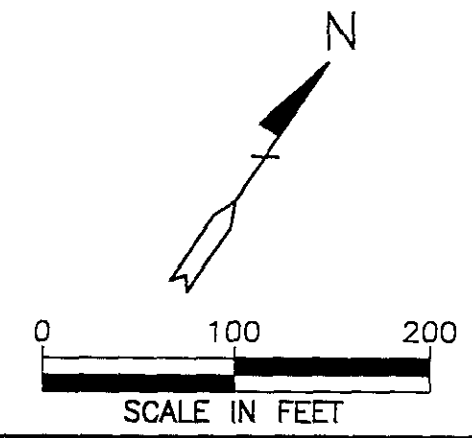
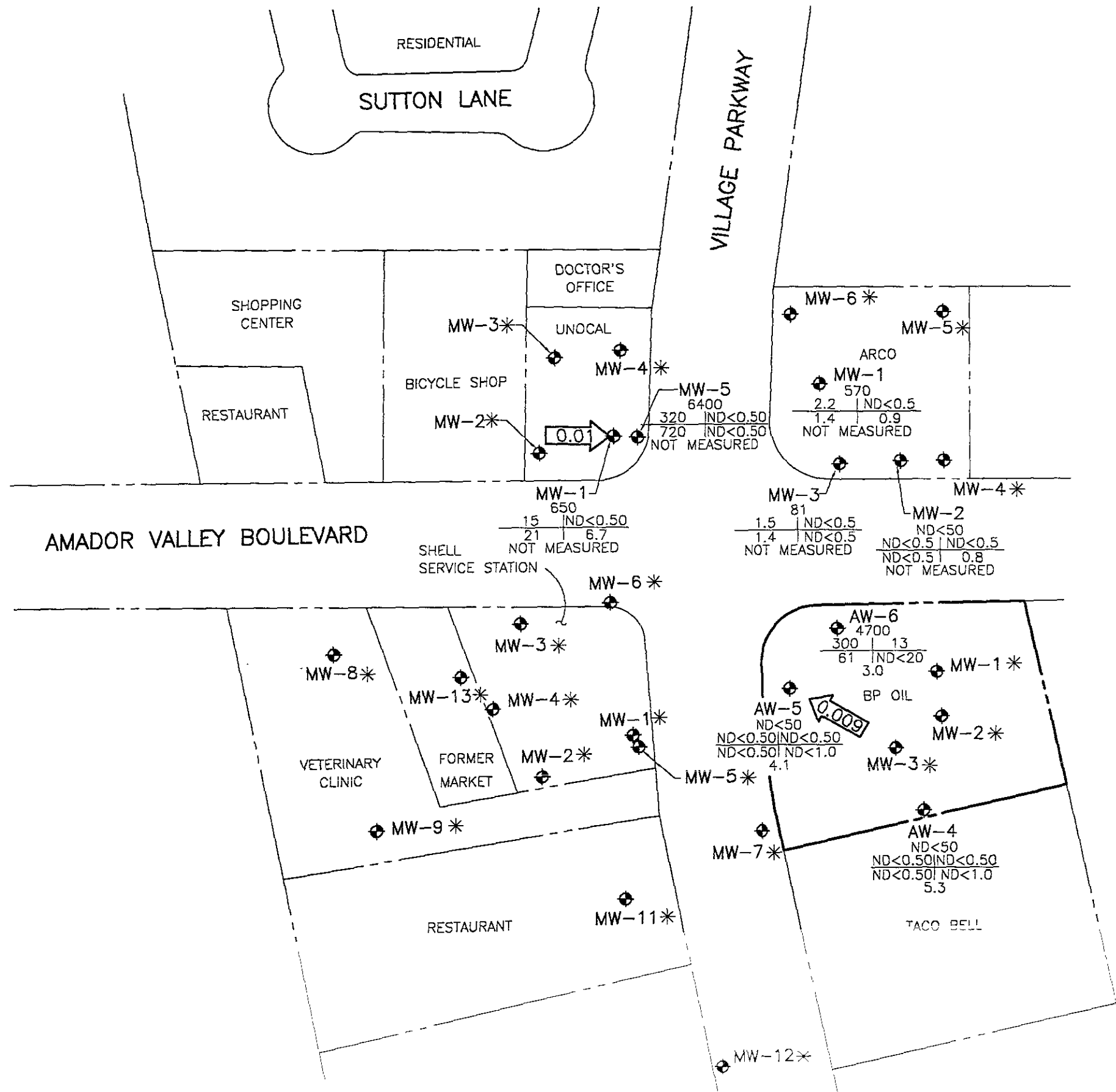
ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (325.53) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 325.60 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL-0.40 FOOT)
 - ← 0.009 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
 - * NOT MONITORED

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 NOVEMBER 28, 1995
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

100170 P. 1016-2 B. 04 11/95



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
- ←0.009 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
- * NOT SAMPLED

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
NOVEMBER 28, 1995
BP OIL SERVICE STATION NO. 11116
7197 VILLAGE PARKWAY
DUBLIN, CALIFORNIA
PROJECT NO. 10-017

10/27/95 P.1001 2 15 95 1001

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. 10-017-05-002 Date: 11/28/95
Address 7197 Village Parkway Day: MTWTHF
Contract No. G602087 City: Dublin
Station No. BP 11116 Sampler: DL

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME SAMPLED	COMMENTS:
MW-1	SEMI	2"	9.54	25.90	Φ	1100	replaced cap (Total Depths & NTUs are reversed) DL
MW-2	SEMI	↓	9.05'	25.45		1054	
MW-3	SEMI	↓	8.57'	25.90		1048	
AW-4	S-1	4"	7.81'	34.15		1043	
AW-5	S-2	↓	9.32'	32.90		1105	
AW-6	S-3	↓	9.20'	16.50	↓	1109	

FIELD INSTRUMENT CALIBRATION DATA

pH METER AquaCheck 400 7.00 10.00 TEMPERATURE COMPENSATED (Y) N TIME 1155 WEATHER Sunny
D.O. METER AquaCheck K ZERO d.O. SOLUTION ✓ BAROMETRIC PRESSURE 761 TEMP 61.2°C
CONDUCTIVITY METER AquaCheck 10,000 TURBIDITY METER 5.0 NTU OTHER Factory Solns

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
AW-4	7.81	4"	OV	Φ	Y (N)	15	1205	67.0	7.35	803	5.4	<input type="radio"/> EPA 601
Total Depth - Water Level - x Well Vol. Factor = x#vol. to Purge Purge Vol.						40	1212	67.1	7.33	868	5.5	<input checked="" type="radio"/> TPH-G/BTEX <u>Hu</u>
$34.15 - 7.81 = 26.34 \times .65 = 17.12 \times 3 = 51.36$						51.5	1216	67.4	7.31	909	5.3	<input type="radio"/> TPH Diesel
Purge Method <input checked="" type="checkbox"/> Surface Pump ODisp, Tube OWinch ODisp. Baller(s) OSys Port												<input type="radio"/> TOG 5520
Comments												TIME/SAMPLE ID
												<u>1220 / S-1</u>
AW-5	9.32	4"	OV	Φ	Y (N)	15	1239	71.7	7.08	1940	4.2	<input type="radio"/> EPA 601
Total Depth - Water Level - x Well Vol. Factor = x#vol. to Purge Purge Vol.						30	1237	71.2	7.78	2120	4.1	<input checked="" type="radio"/> TPH-G/BTEX <u>Hu</u>
$32.90 - 9.32 = 23.58 \times .65 = 15.32 \times 3 = 45.96$						46						<input type="radio"/> TPH Diesel
Purge Method <input checked="" type="checkbox"/> Surface Pump ODisp, Tube OWinch ODisp. Baller(s) OSys Port												<input type="radio"/> TOG 5520
Comments <u>Dry to ± 35 galls</u>												TIME/SAMPLE ID
												<u>1240 / S-2</u>

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. 10-017-05-002

Address 7197 Village Parkway

Contract No. G602087

Station No. BP 11116

Sampler:

Date: 11/28/55

Day: M T W T H F

City: Dublin

DC

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
AW-6	9.20	4"	replaced	Φ	Y (N)		5	1246	72.7	6.78	2780	4.1
Total Depth - Water Level - x Well Vol. Factor = x#vol. to Purge PurgeVol.							10	1245	73.9	6.85	2380	3.1
16.50 - 9.20 = 7.30 x .65 = 4.75 x 3 = 14.24							14.5	1252	73.6	6.80	2370	3.0
Purge Method <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bail(s) <input type="checkbox"/> Sys Port												
Comments: <u>2L - 1 from this well (3-4)</u>												

- EPA 601
- TPH-G/BTEX HL
- TPH Diesel
- TOG 5520
- TIME/SAMPLE ID
- 1256 13-3

- AW-6 will be pumped out; information on pump out sheet

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



Analytical **Technologies, Inc.**

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 511364

December 15, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11116/7197 VILLAGE PARKWAY, DUBLIN, CA
Project # : G602087/10-017-05-002

Attention: BILL HOWELL

Analytical Technologies, Inc. has received the following sample(s):

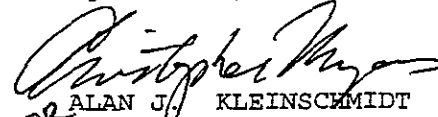
<u>Date Received</u>	<u>Quantity</u>	<u>Matrix</u>
November 30, 1995	5	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

Please note the EPA MOD 8015/8020 was performed by Analytical Technologies Inc., Renton.


GARY STEWART
VOLATILES SUPERVISOR


FOR ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

RECEIVED
DEC 26 1995

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
 Project # : G602087/10-017-05-002
 Project Name: BP SITE#11116/7197 VILLAGE PARKWAY, DUBLIN, CA

Report Date: December 15, 1995
 ATI I.D. : 511364

ATI #	Client Description	Matrix	Date Collected
1	S-1	WATER	28-NOV-95
2	S-2	WATER	28-NOV-95
3	S-3	WATER	28-NOV-95
4	S-4	WATER	28-NOV-95
5	S-5	WATER	28-NOV-95

---TOTALS---

<u>Matrix</u>	<u># Samples</u>
WATER	5

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G602087/10-017-05-002
Project Name: BP SITE#11116/7197 VILLAGE PARKWAY, DUBLIN, CA

ATI I.D.: 511364

Analysis	Technique/Description
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C7-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335

John M. Buerger, Laboratory Manager

ATI I.D. # 512025

December 14, 1995

Analytical Technologies, Inc.
5550 Morehouse Drive
San Diego CA 92121

Attention : Gary Stewart

Project Number : 511364

Project Name : Alisto

Dear Mr. Stewart:

On December 6, 1995, Analytical Technologies, Inc. (ATI), received five samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Sincerely,

Victoria L. Bayly
Project Manager

VLB/hal/elf

Enclosure

SAMPLE CROSS REFERENCE SHEET

CLIENT : ANALYTICAL TECHNOLOGIES, INC.
 PROJECT # : 511364
 PROJECT NAME : ALISTO

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
512025-1	S-1	11/28/95	WATER
512025-2	S-2	11/28/95	WATER
512025-3	S-3	11/28/95	WATER
512025-4	S-4	11/28/95	WATER
512025-5	S-5	11/28/95	WATER

----- TOTALS -----

MATRIX	# SAMPLES
WATER	5

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : ANALYTICAL TECHNOLOGIES, INC.
PROJECT # : 511364
PROJECT NAME : ALISTO

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX + MTBE	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED- CDOHS	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PTL = ATI - Portland
ANC = ATI - Anchorage
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: N/A
PROJECT #	: 511364	DATE RECEIVED	: N/A
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 1

 COMPOUNDS

 RESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<1.0
METHYL-TERT-BUTYL ETHER	<5.0
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	97	50 - 150
BROMOFLUOROBENZENE	99	70 - 119

VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: N/A
PROJECT #	: 511364	DATE RECEIVED	: N/A
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/07/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<1.0
METHYL-TERT-BUTYL ETHER	<5.0
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	100	50 - 150
BROMOFLUOROBENZENE	100	70 - 119

VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: N/A
PROJECT #	: 511364	DATE RECEIVED	: N/A
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/08/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 1

COMPOUNDS RESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<1.0
METHYL-TERT-BUTYL ETHER	<5.0
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY LIMITS

TRIFLUOROTOLUENE	102	50 - 150
BROMOFLUOROBENZENE	95	70 - 119

ATI I.D. # 512025-1

VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 11/28/95
PROJECT #	: 511364	DATE RECEIVED	: 12/06/95
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: S-1	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	<0.50
TOTAL XYLENES	<1.0
METHYL-TERT-BUTYL ETHER	<5.0
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	95	50 - 150
BROMOFLUOROBENZENE	96	70 - 119

VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 11/28/95
PROJECT #	: 511364	DATE RECEIVED	: 12/06/95
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: S-2	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 1

-----	-----	-----
COMPOUNDS		RESULTS
-----	-----	-----
BENZENE		<0.50
ETHYLBENZENE		<0.50
TOLUENE		<0.50
TOTAL XYLENES		<1.0
METHYL-TERT-BUTYL ETHER	700	D5
FUEL HYDROCARBONS		<50
HYDROCARBON RANGE		BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING		GASOLINE

 SURROGATE PERCENT RECOVERY LIMITS

TRIFLUOROTOLUENE	76	50 - 150
BROMOFLUOROBENZENE	96	70 - 119

D5 = Value from a twenty fold diluted analysis.

VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 11/28/95
PROJECT #	: 511364	DATE RECEIVED	: 12/06/95
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: S-3	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 20

COMPOUNDS	RESULTS
BENZENE	300
ETHYLBENZENE	61
TOLUENE	13
TOTAL XYLENES	<20
METHYL-TERT-BUTYL ETHER	3600 D7
FUEL HYDROCARBONS	4700
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	95	50 - 150
BROMOFLUOROBENZENE	95	70 - 119

D7 = Value from a 100 fold diluted analysis.

ATI I.D. # 512025-4

 VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 11/28/95
PROJECT #	: 511364	DATE RECEIVED	: 12/06/95
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: S-4	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 20

 COMPOUNDS
RESULTS

BENZENE	310	
ETHYLBENZENE	78	
TOLUENE	12	
TOTAL XYLENES	<20	
METHYL-TERT-BUTYL ETHER	3800	D7
FUEL HYDROCARBONS	5200	
HYDROCARBON RANGE	BENZENE TO DODECANE	
HYDROCARBON QUANTITATION USING	GASOLINE	

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	93	50 - 150
BROMOFLUOROBENZENE	95	70 - 119

D7 = Value from a 100 fold diluted analysis.

ATI I.D. # 512025-5

VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 11/28/95
PROJECT #	: 511364	DATE RECEIVED	: 12/06/95
PROJECT NAME	: ALISTO	DATE EXTRACTED	: N/A
CLIENT I.D.	: S-5	DATE ANALYZED	: 12/08/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.50
ETHYLBENZENE	<0.50
TOLUENE	1.6
TOTAL XYLENES	1.2
METHYL-TERT-BUTYL ETHER	<5.0
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	97	50 - 150
BROMOFLUOROBENZENE	94	70 - 119

ATI I.D. # 512025

VOLATILE ORGANICS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: 511364	DATE EXTRACTED	: N/A
PROJECT NAME	: ALISTO	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.7	99	N/A	N/A	N/A
TOLUENE	<0.500	20.0	19.8	99	N/A	N/A	N/A
TOTAL XYLENES	<1.00	40.0	39.9	100	N/A	N/A	N/A
METHYL-TERT-BUTYL ETHER	<5.00	20.0	21.3	107	N/A	N/A	N/A
GASOLINE	<50.0	1000	956	96	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
METHYL-TERT-BUTYL ETHER	80 - 120	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	97	N/A	50 - 150
BROMOFLUOROBENZENE	94	N/A	70 - 119

ATI I.D. # 512025

VOLATILE ORGANICS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: 511364	DATE EXTRACTED	: N/A
PROJECT NAME	: ALISTO	DATE ANALYZED	: 12/07/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.4	97	N/A	N/A	N/A
TOLUENE	<0.500	20.0	19.9	100	N/A	N/A	N/A
TOTAL XYLENES	<1.00	40.0	39.9	100	N/A	N/A	N/A
METHYL-TERT-BUTYL ETHER	<5.00	20.0	19.2	96	N/A	N/A	N/A
GASOLINE	<50.0	1000	966	97	N/A	N/A	N/A

CONTROL LIMITS

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
METHYL-TERT-BUTYL ETHER	80 - 120	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	99	N/A	50 - 150
BROMOFLUOROBENZENE	96	N/A	70 - 119

ATI I.D. # 512025

 VOLATILE ORGANICS ANALYSIS
 QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: 511364	DATE EXTRACTED	: N/A
PROJECT NAME	: ALISTO	DATE ANALYZED	: 12/08/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.8	99	N/A	N/A	N/A
TOLUENE	<0.500	20.0	20.2	101	N/A	N/A	N/A
TOTAL XYLENES	<1.00	40.0	40.7	102	N/A	N/A	N/A
METHYL-TERT-BUTYL ETHER	<5.00	20.0	19.1	96	N/A	N/A	N/A
GASOLINE	<50.0	1000	971	97	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
METHYL-TERT-BUTYL ETHER	80 - 120	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	98	N/A	50 - 150
BROMOFLUOROBENZENE	95	N/A	70 - 119

ATI I.D. # 512025

VOLATILE ORGANICS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: 512025-5
PROJECT #	: 511364	DATE EXTRACTED	: N/A
PROJECT NAME	: ALISTO	DATE ANALYZED	: 12/07/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<50.0	<50.0	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
GASOLINE						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
TRIFLUOROTOLUENE				97		88		50 - 150	

NC = Not calculable.

ATI I.D. # 512025

 VOLATILE ORGANICS ANALYSIS
 QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: 512030-1
PROJECT #	: 511364	DATE EXTRACTED	: N/A
PROJECT NAME	: ALISTO	DATE ANALYZED	: 12/06/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS/8020		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.500	N/A	N/A	20.0	19.9	100	19.4	97	3
TOLUENE	<0.500	N/A	N/A	20.0	20.1	101	19.3	97	4
TOTAL XYLENES	<1.00	N/A	N/A	40.0	40.1	100	38.7	97	4
METHYL-TERT-BUTYL ETHER	<5.00	N/A	N/A	20.0	20.9	105	20.7	103	1
GASOLINE	<50.0	<50.0	NC	1000	951	95	972	97	2

CONTROL LIMITS

	% REC.	RPD
BENZENE	86 - 113	10
TOLUENE	87 - 114	10
TOTAL XYLENES	85 - 113	10
METHYL-TERT-BUTYL ETHER	80 - 120	10
GASOLINE	80 - 113	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	95	96	50 - 150
BROMOFLUOROBENZENE	96	95	70 - 119

NC = Not calculable.

PROJECT MANAGER: Curry Stewart
 COMPANY: ATI-SD
 ADDRESS:

BILL TO:
 COMPANY: WINE
 ADDRESS:

SAMPLERS (Signature) _____ PHONE NUMBER _____

Recommended Quantity and Preservative (Provide triple volume on QC Samples)											
1L (H ₂ SO ₄)/100g	1L (H ₂ SO ₄)/100g	4 oz (HCl)/50g	4 oz (HCl)/50g	2X40ml (HCl)/50g	4 oz (HCl)/50g	2X40ml (HCl)/50g	2X40ml (HCl)/50g	2X40ml (HCl)/50g	2X40ml (HCl)/50g	500ml/50g	
Petroleum Hydrocarbons 418.1	Oil and Grease 413.2	Gasoline (MOD 8015/DOHS)	Diesel (MOD 8015/DOHS)	Gasoline/BTXE (MOD 8015/8020) Maximum Contamination Level of Gasoline: 2ppm (water), 50ppm (Soil)	MOD 8015 (Unknown)	BTXE (8020)	Chlorinated Hydrocarbons (8010)	Aromatic Hydrocarbons (8020)	Chlorinated/Aromatic Hydrocarbons (8010/8020)	Organic Pb	Pesticides/PCB (8080)
											Base/NEU/Acid Cmpds GC/MS (8270)
											Volatile Cmpds GC/MS (8240)
											Polynuclear Aromatic (8310)
											CCR Metals
											Priority Pollutant Metals
											L FUEL B + M TBE
											Number of Containers

SAMPLE ID	SAMPLE DATE	TIME	MATRIX	LAB ID
511364-01 (S-1)	11/28/95		Water	1
511364-02 (S-2)	1		1	2
511364-03 (S-3)	1		1	3
511364-04 (S-4)	1		1	4
511364-05 (S-5)	1		1	5

PROJECT INFORMATION	SAMPLE RECEIPT
PROJECT NUMBER: 511364	TOTAL NUMBER OF CONTAINERS: 10
PROJECT NAME: ALISTO	CHAIN OF CUSTODY SEALS Y/N/A: Y
PURCHASE ORDER NUMBER	SEALS INTACT Y/N/A: Y
VIA:	RECEIVED GOOD COND/GOLD: Y
TAT: <input type="checkbox"/> 24HR <input type="checkbox"/> 48HRS <input type="checkbox"/> 72HRS <input type="checkbox"/> 1WK <input type="checkbox"/> 2WK	LAB NUMBER: 512025

SAMPLE DISPOSAL INSTRUCTIONS

ATI Disposal @ \$5.00 each Return Pickup

Comments:
 Hold TIME UP 12/12 11

RELINQUISHED BY: 1.

Signature: Kerry Stewart Time: 4:30 PM
 Printed Name: Kerry Stewart Date: 12/4/95
 Company: ATI-SD

RECEIVED BY: 1.

Signature: Brian Jenkins Time: 9:30
 Printed Name: Brian Jenkins Date: 12-10-95
 Company: ATI

RELINQUISHED BY: 2.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RECEIVED BY: 2.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RELINQUISHED BY: 3.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RECEIVED BY (LAB): 3.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Analytical Technologies, Inc.

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes / no / na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	<u>NO</u>
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below		1
3	Are custody seals required for this project ? a) are Custody Seals present on Cooler(s) ? If yes, are seals intact ? b) are Custody Seals present on the sample ? If yes, are seals intact ?	YES	<u>N/A</u>
		YES	<u>NO</u>
		YES	<u>N/A</u>
		YES	NO
		YES	<u>NO</u>
		YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	<u>YES</u>	NO
5	Is the COC* complete per cooler ? Relinquished: <u>yes/no</u> Requested analysis: <u>yes/no</u>	<u>YES</u>	NO
6	Is the COC* in agreement with the samples received? # Samples: <u>yes/no</u> Sample ID's: <u>yes/na</u> Date sampled: <u>yes/no</u> Matrix: <u>yes/no</u> # containers: <u>yes/no</u>	<u>YES</u>	NO
7	Are the samples preserved correctly?	<u>YES</u>	NO
8	Is there enough sample for all the requested analyses?	<u>YES</u>	NO
9	Are all samples within holding times for the requested analyses?	<u>YES</u>	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C. Is ice present in cooler?	2.0 °c	<u>YES</u>
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	<u>YES</u>	NO
12	Are samples requiring no headspace, headspace free? N/A	<u>YES</u>	NO
13	Are VOA 1st stickers required?	YES	<u>NO</u>
14	Are there special comments on the Chain of Custody which require client contact?	YES	<u>N/A</u>
15	If yes, was ATI Project Manager notified? <u>N/A</u>	YES	NO

Describe "no" items: _____

Was client contacted? yes / no
 If yes, Date: _____ Name of Person contacted: _____
 Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos



CHAIN OF CUSTODY

511364

No. 075831

Page 1 of 1

CONSULTANT'S NAME <i>Alford Engineering</i>		ADDRESS <i>1575 Trent Blvd Wauwatosa</i>		CITY <i>WA</i>	STATE <i>WI</i>	ZIP CODE <i>53190</i>
BP SITE NUMBER <i>1116</i>	BP CORNER ADDRESS/CITY <i>7197 Village Parkway, Dublin OH</i>			CONSULTANT PROJECT NUMBER <i>10-017-05-002</i>		
CONSULTANT PROJECT MANAGER <i>P. Lydon</i>		PHONE NUMBER <i>(513) 295-1650</i>	FAX NUMBER <i>(513) 295-1723</i>	CONSULTANT CONTRACT NUMBER <i>6602087</i>		
BP CONTACT <i>Steve Lydon</i>	BP ADDRESS <i>Renton WA</i>		PHONE NUMBER	FAX NO.		
LAB CONTACT <i>Alford</i>	LABORATORY ADDRESS <i>San Diego CA</i>		PHONE NUMBER	FAX NO.		
SAMPLED BY (Please Print Name) <i>Dave L...</i>		SAMPLED BY (Signature) <i>[Signature]</i>		SHIPMENT DATE <i>11-29-95</i>	SHIPMENT METHOD <i>Fed Ex</i>	

TAT: 24 Hours 48 Hours 1 Week Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER: *6680236 511*

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	COMMENTS
			NO.	TYPE (VOL.)	LAB. SAMPLE #	
<i>S-1</i>	<i>11/29/95</i>	<i>H2O</i>	<i>2</i>	<i>Vol</i>	<i>01</i>	
<i>S-2</i>					<i>02</i>	
<i>S-3</i>					<i>03</i>	
<i>S-4</i>					<i>04</i>	
<i>S-5</i>					<i>05</i>	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<i>[Signature]</i>	<i>11/29/95</i>	<i>1550</i>	<i>P. Lydon</i>	<i>11/29/95</i>	<i>1555</i>	
<i>[Signature]</i>	<i>11/29/95</i>	<i>1600</i>	<i>[Signature] / ATT</i>	<i>11/30/95</i>	<i>915</i>	