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

February 27, 1996

Mr. Scott Seery
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

RE: **BP OIL FACILITY #11105**
3515 Castro Valley Blvd
Castro Valley, CA

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED February 2, 1996,** for the above referenced facility. Plans for the coming quarter include groundwater monitoring and shallow soil sampling near a former product dispenser location.

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:aa msword\ERM11105

cc: Mr. Eddy So, CRWQCB, San Francisco Bay Region, 2101 Webster Street, Suite 200, Oakland, CA 94612

Mr. Brady Nagle, Alisto Engineering Group, 1777 Oakland Blvd., Suite 200, Walnut Creek, CA 94596

Mr. Michael Ahern, MW Associates, c/o American Title Co., 2641 Crow Canyon Rd, San Ramon, CA 94583

Mr. Greg Cahill, 3551 "B" Castro Valley Blvd, Castro Valley, CA 94546

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11105
3515 Castro Valley Boulevard
Castro Valley, California

Project No. 10-138-05-001

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 2, 1996

Brady Nagle
Project Manager

Al Sevilla, P.E.
Principal

REGISTERED PROFESSIONAL ENGINEER
ALBERTO SANCHEZ SEVILLA
26392
Exp. Date 3/31/96
CIVIL
STATE OF CALIFORNIA

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11105
3515 Castro Valley Boulevard
Castro Valley, California

Project No. 10-138-05-001

February 2, 1996

INTRODUCTION

This report presents the results and findings of the November 17, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11105, 3515 Castro Valley Boulevard, Castro Valley, 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. 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 during this and previous quarters are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown on Figure 2. The results of laboratory 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. 11105
3515 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

ALISTO PROJECT NO. 10-138

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)	1,2-DCA (ug/l)	DO (ppm)	LAB
ESE-1	10/05/92	177.69	11.22	166.47	2100	96	370	150	17	110	---	ND	1.8	---	---
ESE-1D (c)	10/05/92	---	---	---	2300	---	370	160	16	110	---	---	---	---	---
ESE-1	04/01/93	177.69	8.79	168.90	5900	---	1500	410	110	390	---	---	---	---	PACE
ESE-1	06/29/93	177.69	10.34	167.35	7600	---	2900	390	130	460	---	---	---	---	PACE
ESE-1	09/23/93	177.69	10.91	166.78	2000	---	490	40	20	56	---	---	---	---	PACE
QC-1 (c)	09/23/93	---	---	---	1500	---	420	39	19	56	---	---	---	---	PACE
ESE-1	12/10/93	177.69	9.93	167.76	1800	---	480	42	19	66	---	---	---	3.2	PACE
QC-1 (c)	12/10/93	---	---	---	1500	---	380	38	17	55	---	---	---	---	PACE
ESE-1	02/17/94	177.69	9.64	168.05	1900	---	380	48	24	80	---	---	---	---	PACE
QC-1 (c)	02/17/94	---	---	---	2200	---	430	42	19	65	---	---	---	---	PACE
ESE-1	08/08/94	177.69	11.72	165.97	2100	---	450	46	16	50	---	---	---	5.1	PACE
ESE-1	10/12/94	177.69	10.48	167.21	760	---	240	16	51	39	---	---	---	3.5	PACE
ESE-1	01/19/95	177.69	7.77	169.92	840	---	600	120	22	58	---	---	---	8.0	ATI
ESE-1	05/02/95	177.69	8.69	169.00	2000	---	640	67	24	98	---	---	---	8.5	ATI
ESE-1	07/28/95	177.69	10.12	167.57	190	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	7.9	ATI
ESE-1	11/17/95	177.69	10.57	167.12	200	---	3.4	ND<1.0	1.0	ND<2.0	600	---	---	7.7	ATI
ESE-2	10/05/92	178.23	11.68	166.55	300	---	5.4	16	3.9	45	---	---	---	---	---
ESE-2	04/01/93	178.23	9.17	169.06	240	---	27	ND<0.5	17	2.6	---	---	---	---	PACE
ESE-2	06/29/93	178.23	10.88	167.35	1700	---	260	24	110	23	---	---	---	---	PACE
QC-1 (c)	06/29/93	---	---	---	1300	---	240	17	110	25	---	---	---	---	PACE
ESE-2	09/23/93	178.23	11.56	166.67	240	---	3.1	0.5	0.6	2.5	---	---	---	---	PACE
ESE-2	12/10/93	178.23	10.48	167.75	250	---	2.4	2.4	1.5	11	---	---	---	2.6	PACE
ESE-2	02/17/94	178.23	10.06	168.17	900	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
ESE-2	08/08/94	178.23	11.11	167.12	750	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	5.1	PACE
ESE-2	10/12/94	178.23	11.31	166.92	1700	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	3.6	PACE
ESE-2	01/19/95	178.23	8.25	169.98	300	---	2	0.9	0.7	1	---	---	---	8.1	ATI
ESE-2	05/02/95	178.23	9.21	169.02	1200	---	4.0	ND<2.5	ND<2.5	ND<5.0	---	---	---	8.4	ATI
ESE-2	07/28/95	178.23	10.64	167.59	2000	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	---	---	7.7	ATI
ESE-2	11/17/95	178.23	11.13	167.10	3600	---	ND<25	ND<25	ND<25	ND<50	12000	---	---	7.4	ATI
QC-1 (c)	11/17/95	---	---	---	3400	---	ND<25	ND<25	ND<25	ND<50	12000	---	---	---	ATI

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BP OIL COMPANY SERVICE STATION NO. 11105
3515 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

ALISTO PROJECT NO. 10-138

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)	1,2-DCA (ug/l)	DO (ppm)	LAB
ESE-3	10/05/92	178.20	10.58	167.62	430	---	57	31	3.6	34	---	---	---	---	---
ESE-3	04/01/93	178.20	8.14	170.06	2400	---	460	220	74	210	---	---	---	---	PACE
ESE-3	06/29/93	178.20	9.72	168.48	280	---	56	14	15	13	---	---	---	---	PACE
ESE-3	09/23/93	178.20	10.46	167.74	72	---	13	3.5	1.7	4.1	---	---	---	---	PACE
ESE-3	12/10/93	178.20	9.30	168.90	270	---	71	32	6.1	33	---	---	---	2.7	PACE
ESE-3	02/17/94	178.20	8.97	169.23	520	---	140	10	20	33	---	---	---	---	PACE
ESE-3	08/08/94	178.20	10.02	168.18	ND<50	---	8.8	1.6	1.6	2.3	---	---	---	6.2	PACE
ESE-3	10/12/94	178.20	10.32	167.88	470	---	190	6.4	15	18	---	---	---	3.5	PACE
ESE-3	01/19/95	178.20	7.40	170.80	330	---	260	27	21	20	---	---	---	6.7	ATI
ESE-3	05/02/95	178.20	8.26	169.94	530	---	180	30	23	44	---	---	---	8.6	ATI
ESE-3	07/28/95	178.20	9.54	168.66	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.8	ATI
ESE-3	11/17/95	178.20	10.04	168.16	ND<50	---	1.7	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	7.3	ATI
ESE-4	10/05/92	177.73	10.33	167.40	98	---	7.2	1.3	1.1	6.1	---	---	---	---	---
ESE-4	04/01/93	177.73	7.88	169.85	550	---	93	20	23	33	---	---	---	---	PACE
ESE-4	06/29/93	177.66 (d)	8.33	169.33	150	---	23	0.6	5.4	0.5	---	---	---	---	PACE
ESE-4	09/23/93	177.66	10.05	167.61	110	---	14	1.7	3.2	4.6	---	---	---	---	PACE
ESE-4	12/10/93	177.66	8.95	168.71	110	---	21	7.2	4.2	10	---	---	---	2.8	PACE
ESE-4	02/17/94	177.66	8.65	169.01	210	---	26	1.2	4.7	11	---	---	---	---	PACE
ESE-4	08/08/94	177.66	9.76	167.90	76	---	9.6	ND<0.5	2.0	ND<0.5	---	---	---	7.0	PACE
ESE-4	10/12/94	177.66	9.62	168.04	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	3.2	PACE
ESE-4	01/19/95	177.66	6.97	170.69	140	---	56	14	24	23	---	---	---	6.9	ATI
ESE-4	05/02/95	177.66	7.85	169.81	130	---	21	2.8	8.6	8.2	---	---	---	9.1	ATI
ESE-4	07/28/95	177.66	9.20	168.46	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.1	ATI
ESE-4	11/17/95	177.66	9.68	167.98	ND<50	---	ND<0.50	0.60	ND<0.50	ND<1.0	18	---	---	5.7	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
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3515 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

ALISTO PROJECT NO. 10-138

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)	1,2-DCA (ug/l)	DO (ppm)	LAB
ESE-5	10/05/92	176.08	9.22	166.86	1300	---	200	3.8	1.2	18	---	---	---	---	---
ESE-5	04/01/93	176.08	7.02	169.06	13000	---	2200	26	730	1000	---	---	---	---	PACE
QC-1 (c)	04/01/93	---	---	---	13000	---	2500	25	740	1100	---	---	---	---	PACE
ESE-5	06/29/93	176.08	10.21	165.87	7600	---	1500	9.3	170	100	---	---	---	---	PACE
ESE-5	09/23/93	176.08	10.64	165.44	560	---	19	1.2	0.9	1.8	---	---	---	---	PACE
ESE-5	12/10/93	176.08	9.42	166.66	1700	---	300	3.0	76	110	---	---	---	2.5	PACE
ESE-5	02/07/94	176.08	9.35	166.73	3500	---	640	7.8	90	130	---	---	---	---	PACE
ESE-5	08/08/94	176.08	8.76	167.32	2600	---	210	4.6	9.4	4.4	---	---	---	5.8	PACE
QC-1 (c)	08/08/94	---	---	---	2500	---	230	4.6	13	4.8	---	---	---	---	PACE
ESE-5	10/12/94	176.08	8.95	167.13	5600	---	560	9.5	75	21	---	---	---	3.6	PACE
QC-1 (c)	10/12/94	---	---	---	6000	---	550	10	78	22	---	---	---	---	PACE
ESE-5	01/19/95	176.08	5.40	170.68	1900	---	620	ND<5	95	15	---	---	---	7.6	ATI
QC-1 (c)	01/19/95	---	---	---	1600	---	620	ND<5	93	17	---	---	---	---	ATI
ESE-5	05/02/95	176.08	6.48	169.60	5700	---	1100	ND<10	180	58	---	---	---	8.2	ATI
QC-1 (c)	05/02/95	---	---	---	5300	---	1100	ND<10	180	58	---	---	---	---	ATI
ESE-5	07/28/95	176.08	7.97	168.11	520	---	15	ND<0.50	1.7	1.3	---	---	---	8.2	ATI
QC-1 (c)	07/28/95	---	---	---	460	---	7.2	ND<0.50	1.9	1.5	---	---	---	---	ATI
ESE-5	11/17/95	176.08	8.39	167.69	850	---	39	1.8	7.6	2.7	24	---	---	6.3	ATI
MW-6	07/28/95	179.24	10.00	169.24	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.1	ATI
MW-6	11/17/95	179.24	10.44	168.80	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	6.8	ATI
MW-7	07/28/95	176.55	9.25	167.30	ND<50	---	0.54 (e)	0.54	ND<0.50	ND<1.0	---	---	---	7.1	ATI
MW-7	11/17/95	176.55	9.73	166.82	1100	---	ND<10	ND<10	ND<10	ND<20	4000	---	---	6.3	ATI
MW-8	07/28/95	176.34	7.80	168.54	1100	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	---	---	---	7.2	ATI
MW-8	11/17/95	176.34	8.29	168.05	8300	---	75	5.3	670	240	140	---	---	7.0	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11105
3515 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

ALISTO PROJECT NO. 10-138

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)	1,2-DCA (ug/l)	DO (ppm)	LAB
QC-2 (f)	04/01/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	06/29/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	09/23/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	12/10/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	02/17/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	08/08/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	10/12/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (f)	01/19/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (f)	05/02/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (f)	07/28/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (f)	11/17/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	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
1,2-DCA	1,2-Dichloroethane
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not applicable/available/measured/analyzed
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.

NOTES:

(a) Top of casing elevations surveyed relative to mean sea level.

(b) Groundwater elevations in feet relative to mean sea level.

(c) Blind duplicate.

(d) Top of casing lowered by 0.07 foot after the monitoring event on 4/01/93.

(e) Sample result may be falsely elevated due to matrix interference.

(f) Travel blank.

E:\0\10-138\138SSI-W.WQ2

SOURCE:
USGS MAP, HAYWARD QUADRANGLE, CALIFORNIA. 7.5 MINUTE SERIES. 1959. PHOTOREVISED 1980.

N

0 1000' 2000'

FIGURE 1

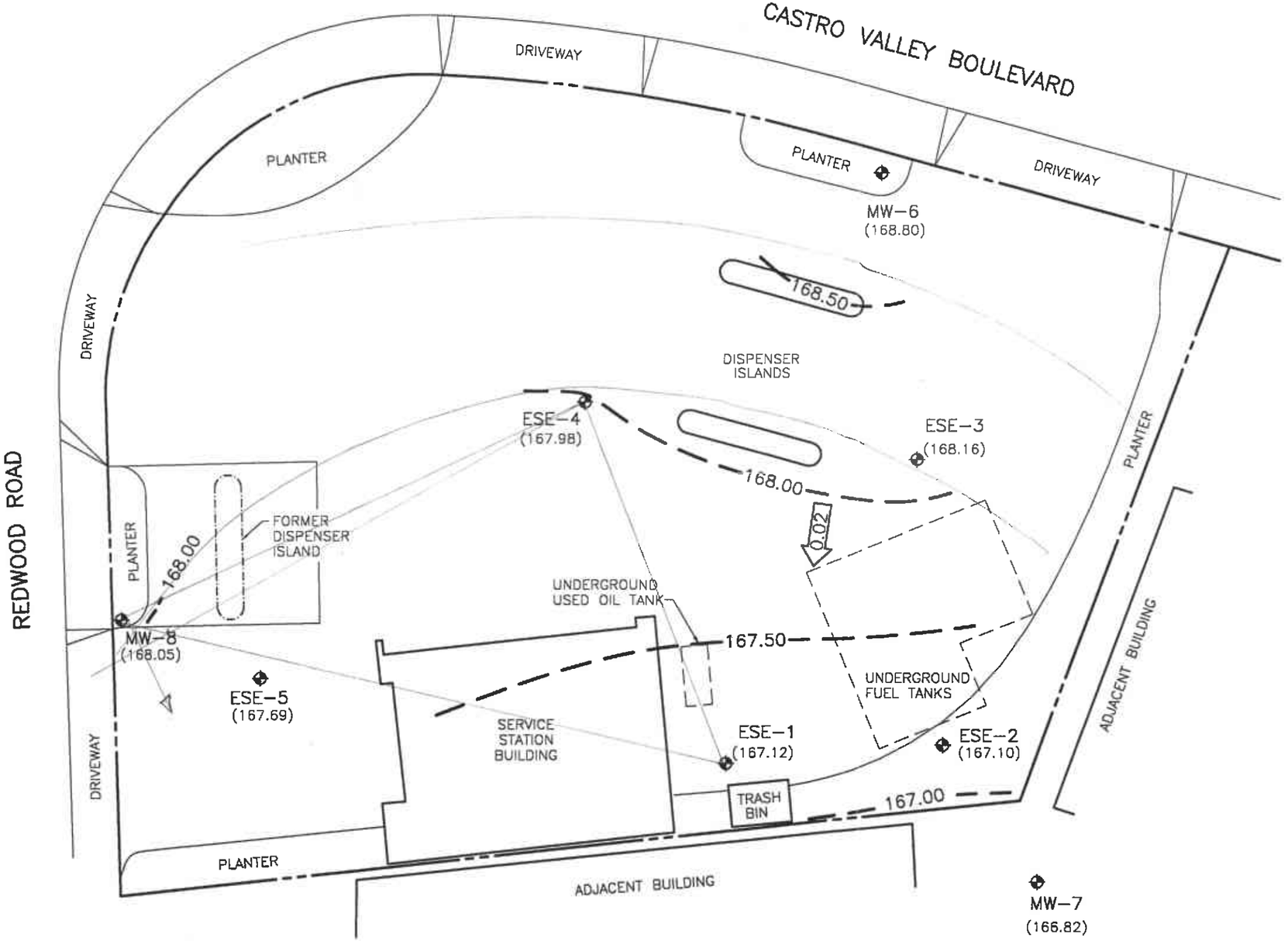
SITE VICINITY MAP

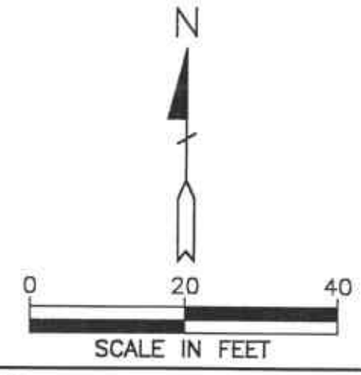
BP OIL SERVICE STATION NO. 11105
3519 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

PROJECT NO. 10-138

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

101383 — DWG 10-12-93 MAP 1=1





LEGEND

◆	GROUNDWATER MONITORING WELL
(168.80)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
168.50	GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL–0.50 FOOT)
0.02	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2

POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

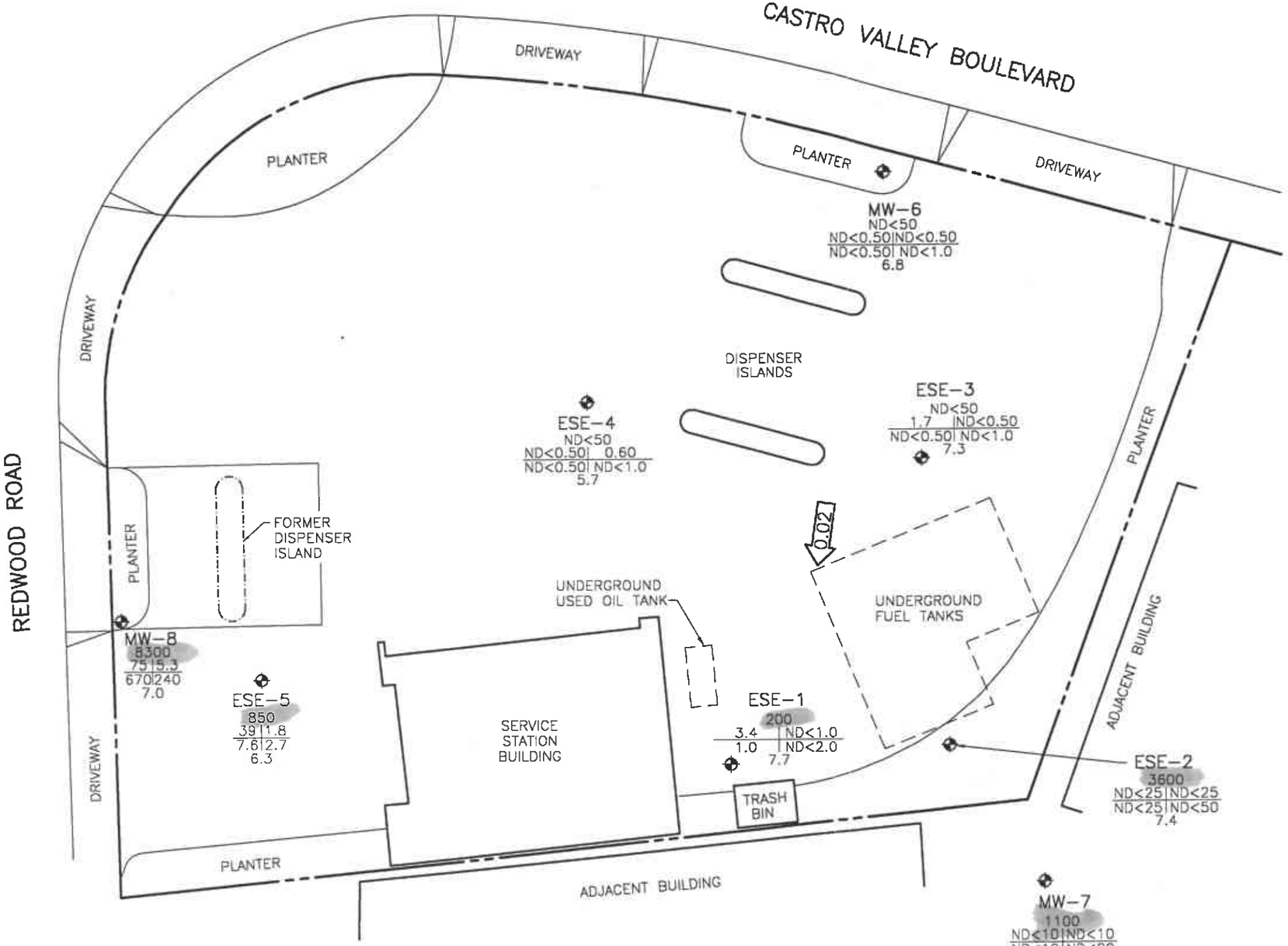
NOVEMBER 17, 1995

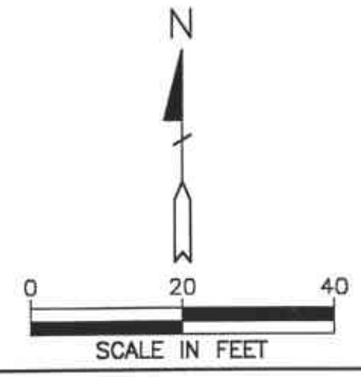
BP OIL SERVICE STATION NO. 11105
3519 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

PROJECT NO. 10–138

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10138D-F.DWG 12-22-95 MAP 1=20





LEGEND

◆	GROUNDWATER MONITORING WELL
TPH-G B | T E | X DO	CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
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
0.02	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

NOVEMBER 17, 1995

BP OIL SERVICE STATION NO. 11105
3519 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

PROJECT NO. 10-138

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10138E-F.DWG 2-1-96 MAP 1=20

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

ALISTO

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

Field Report / Sampling Data Sheet

Project No. 10-138-05-~~002~~ 001 Date: 11/17/95

Address 3515 Castro Valley Blvd Day: M T W TH F

Contract No. G602067 City: Castro Valley

Station No. BP 11105 Sampler: LS

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME SAMPLED	COMMENTS:
ESE-1	S-4	2"	30.00	10.57	Ø	1516	
ESE-2	S-8		30.00	11.13		1714	QC-1 = (S-9)
ESE-3	S-2		30.00	10.04		1356	
ESE-4	S-3		25.00	9.68		1425	
ESE-5	S-6		24.00	8.39		1625	
MW ~~ESE-6~~	S-1		~~30.00~~	10.44		1323	Approx T.D. TD = 29.43
MW ~~ESE-7~~	S-5		~~30.00~~	9.73		1541	~~T.O.F~~ TD = 19.85
MW ~~ESE-8~~	S-7	↓	~~30.00~~	8.29	↓	1657	TD = 28.38

FIELD INSTRUMENT CALIBRATION DATA

pH METER Icm 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED (Y) N TIME 0830

D.O. METER Icm ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE 760 TEMP 66 WEATHER Clear

CONDUCTIVITY METER Icm 10,000 _____ TURBIDITY METER _____ 5.0 NTU _____ OTHER T

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-6	10.44	2"	OK	Ø	Y (N)	3	1300	64.7	8.42	417 µS	7.0
						6		63.1	7.94	409 µS	
						9.5	1315	62.9	7.90	406 µS	6.8

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.

29.43 - 10.44 = 18.99 X .16 = 3.04 X 3 = 9.12

Purge Method: (S)urface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments:

O EPA 601_____

X TPH-G/BTEX HCl

O TPH Diesel____

O TOG 5520 ___

TIME/SAMPLE ID: 1323

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
ESE-3	10.04	2"	OK	Ø	Y (N)	3	1334	65.6	7.64	447 µS	7.7
						6		64.3	7.47	443 µS	
						10	1354	63.4	7.42	439 µS	7.3

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.

30.00 - 10.04 = 19.96 X .16 = 3.19 X 3 = 9.57

Purge Method: (S)urface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments:

O EPA 601_____

X TPH-G/BTEX HCl

O TPH Diesel____

O TOG 5520 ___

TIME/SAMPLE ID: 1356

Well ID
S-9 QC-1
S-10 QC-2

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. 10-138-05-~~002~~ 001 Date: 11/17/95
Address 3515 Castro Valley Blvd Day: M T W TH F
Contract No. G602067 City: Castro Valley
Station No. BP 11105 Sampler: LB

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
* ESE-4	9.68	2"	~~OK~~	Ø	Y (N)	2.5	1410	65.3	7.20	447 µS	4.9
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			5.0		64.0	7.06	441 µS	
25.00 - 9.68 = 15.32	X .16 = 2.45	X3 =	7.35			7.5	1421	63.5	7.02	436 µS	5.7

Purge Method: (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments: Needs Monument & New Cap.

O EPA 601_____ (X) TPH-G/BTEX HCl O TPH Diesel____ O TOG 5520 __
TIME/SAMPLE ID: 1425

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
ESE-1	10.57	2"	OK	Ø	Y (N)	3	1450	63.1	6.87	464 µS	7.2
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			6		62.4	6.77	457 µS	
30.00 - 10.57 = 19.43	X .16 = 3.11	X3 =	9.33			9.5	1515	62.2	6.76	453 µS	7.7

Purge Method: (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

O EPA 601_____ (X) TPH-G/BTEX HCl O TPH Diesel____ O TOG 5520 __
TIME/SAMPLE ID: 1516

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-7	9.73	2"	OK	Ø	Y (N)	2	1524	~~65.3~~	~~6.57~~	~~595~~	6.7
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			3.5		64.3	6.97	475 µS	
19.85 - 9.73 = 10.12	X .16 = 1.62	X3 =	4.86			5		63.3	6.90	462 µS	
							1539	62.0	6.83	460 µS	6.3

Purge Method: (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

O EPA 601_____ (X) TPH-G/BTEX HCl O TPH Diesel____ O TOG 5520 __
TIME/SAMPLE ID: 1541

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
ESE-5	8.39	2"	OK	Ø	Y (N)	3	1610	65.3	6.57	595 µS	5.9
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			5		64.2	6.52	587 µS	
24.00 - 8.39 = 15.61	X .16 = 2.50	X3 =	7.50			7.5	1617	63.7	6.46	583 µS	6.3

Purge Method: (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

O EPA 601_____ (X) TPH-G/BTEX HCl O TPH Diesel____ O TOG 5520 __
TIME/SAMPLE ID: 1625

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-8	8.29	2"	OK	Ø	Y (N)	3	1641	66.3	6.38	624 µS	7.0
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			6		65.1	6.44	611 µS	
28.38 - 8.29 = 20.09	X .16 = 3.21	X3 =	9.63			9.75	1651	64.7	6.51	607 µS	7.0

Purge Method: (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

O EPA 601_____ (X) TPH-G/BTEX HCl O TPH Diesel____ O TOG 5520 __
TIME/SAMPLE ID: 1657

* ESE-4 has an 8" Monument (well box)

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. 10-138-05-~~002~~ 001
Address 3515 Castro Valley Blvd
Contract No. G602067
Station No. BP 11105
Sampler: WS

Date: 11/17/95
Day: M T W TH F
City: Castro Valley

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
ESE-2	11.13	2"	ok	Ø	Y (N)	3	1703	64.4	6.61	473 µs	7.4
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			6		64.0	6.55	466 µs	
30.00 - 11.13 = 18.87	X.16 = 3.02	X3 = 9.06				9.5	1710	63.2	6.52	461 µs	7.4
Purge Method: ⊗Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port											
Comments:											

- O EPA 601 ____
- ⊗ TPH-G/BTEX HCl
- O TPH Diesel ____
- O TOG 5520 ___

TIME/SAMPLE ID
1714

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.: 511286

December 05, 1995

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

Project Name: BP SITE#11105/CASTRO VALLEY, CA
Project # : G602067/10-138-05/001

Attention: BILL HOWELL

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

Date Received	Quantity	Matrix
November 18, 1995	10	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.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J KLEINSCHMIDT
for LABORATORY MANAGER

RECEIVED
DEC 15 1995

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

Report Date: December 05, 1995
ATI I.D. : 511286

ATI #	Client Description	Matrix	Date Collected
1	S-1	WATER	17-NOV-95
2	S-2	WATER	17-NOV-95
3	S-3	WATER	17-NOV-95
4	S-4	WATER	17-NOV-95
5	S-5	WATER	17-NOV-95
6	S-6	WATER	17-NOV-95
7	S-7	WATER	17-NOV-95
8	S-8	WATER	17-NOV-95
9	S-9	WATER	17-NOV-95
10	S-10	WATER	17-NOV-95

---TOTALS---

Matrix	# Samples
WATER	10

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 # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

ATI I.D.: 511286

Analysis	Technique/Description
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 511286
Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	S-1	WATER	17-NOV-95	N/A	30-NOV-95	1.00
2	S-2	WATER	17-NOV-95	N/A	30-NOV-95	1.00
3	S-3	WATER	17-NOV-95	N/A	30-NOV-95	1.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	<5.0	<5.0	18
BENZENE	UG/L	<0.50	1.7	<0.50
TOLUENE	UG/L	<0.50	<0.50	0.60
ETHYLBENZENE	UG/L	<0.50	<0.50	<0.50
XYLENES (TOTAL)	UG/L	<1.0	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	<50	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	97	89	96

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 511286
Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	S-4	WATER	17-NOV-95	N/A	01-DEC-95	2.00
5	S-5	WATER	17-NOV-95	N/A	01-DEC-95	20.00
6	S-6	WATER	17-NOV-95	N/A	01-DEC-95	1.00

Parameter	Units	4	5	6
METHYL T-BUTYL ETHER	UG/L	600	4000	24@E
BENZENE	UG/L	3.4	<10	39
TOLUENE	UG/L	<1.0	<10	1.8@E
ETHYLBENZENE	UG/L	1.0	<10	7.6
XYLENES (TOTAL)	UG/L	<2.0	<20	2.7
FUEL HYDROCARBONS	UG/L	200	1100	850
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	95	88	150*H

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 511286
Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
7	S-7	WATER	17-NOV-95	N/A	01-DEC-95	10.00
8	S-8	WATER	17-NOV-95	N/A	01-DEC-95	50.00
9	S-9	WATER	17-NOV-95	N/A	01-DEC-95	50.00

Parameter	Units	7	8	9
METHYL T-BUTYL ETHER	UG/L	140	12000	12000
BENZENE	UG/L	75	<25	<25
TOLUENE	UG/L	5.3	<25	<25
ETHYLBENZENE	UG/L	670	<25	<25
XYLENES (TOTAL)	UG/L	240	<50	<50
FUEL HYDROCARBONS	UG/L	8300@C	3600	3400
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	103	97	88

@C SAMPLE WAS ANALYZED FOR GASOLINE ON 02-DEC-95.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 511286
Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
10	S-10	WATER	17-NOV-95	N/A	30-NOV-95	1.00

Parameter	Units	10
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	97

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37494
Client : ALISTO ENGINEERING
Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

ATI I.D. : 511286
Date Extracted: N/A
Date Analyzed : 30-NOV-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	97

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 80398
Client : ALISTO ENGINEERING

Project # : G602067/10-138-05/001
Project Name: BP SITE#11105/CASTRO VALLEY, CA

ATI I.D. : 511286
Date Extracted: N/A
Date Analyzed : 01-DEC-95
Sample Matrix : WATER
REF I.D. : 511285-04

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	5.0	100	5.1	102	2
TOLUENE	UG/L	0.88	5.0	5.7	96	5.8	98	2

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 60298
Client : ALISTO ENGINEERING
Project # : G602067/10-138-05/001
Project Name : BP SITE#11105/CASTRO VALLEY, CA

ATI I.D. : 511286
Date Extracted: N/A
Date Analyzed : 30-NOV-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.7	5.0	94
TOLUENE	UG/L	<0.50	4.9	5.0	98

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ANALYTICAL TECHNOLOGIES, INC.
SAN DIEGO
FLAGS

ORGANICS

FLAG	MESSAGE DESCRIPTION
A	A TIC IS A SUSPECTED ALDOL-CONDENSATION PRODUCT
B	ANALYTE FOUND IN THE ASSOCIATED REAGENT BLANK
C	PESTICIDE, WHERE THE IDENTIFICATION WAS CONFIRMED BY GC/MS
CO	THESE COMPOUNDS CO-ELUTE AND ARE QUANTITATED AS ONE PEAK
D	COMPOUND IDENTIFIED IN AN ANALYSIS AT SECONDARY DILUTION
E	ANALYTE AMOUNT EXCEEDS THE CALIBRATION RANGE
J	ESTIMATED VALUE
H	QUANTIFIED AS DIESEL BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF DIESEL
K	QUANTIFIED AS KEROSENE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF KEROSENE
L	QUANTIFIED AS GASOLINE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF GASOLINE
N	PRESUMPTIVE EVIDENCE OF A COMPOUND
P	PESTICIDE/AROCLOR TARGET ANALYTE, WHERE THERE IS GREATER THAN 25% DIFFERENCE FOR DETECTED CONCENTRATION BETWEEN 2 GC COLUMNS
TR	COMPOUND DETECTED AT AN UNQUANTIFIABLE TRACE LEVEL
U	COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
X	SEE CASE NARRATIVE
Y	SEE CASE NARRATIVE
Z	SEE CASE NARRATIVE
*	OUTSIDE OF QUALITY CONTROL LIMITS
*D	COMPOUND ANALYZED FROM A SECONDARY ANALYSIS
*F	RESULT OUTSIDE OF ATI'S QUALITY CONTROL LIMITS
*G	RESULT OUTSIDE QUALITY CONTROL LIMITS. INSUFFICIENT SAMPLE FOR RE-EXTRACTION/ANALYSIS
*H	RESULT OUTSIDE OF LIMITS DUE TO SAMPLE MATRIX INTERFERENCE
*I	BECAUSE OF NECESSARY SAMPLE DILUTION, VALUE WAS OUTSIDE QC LIMITS
*K	DUE TO THE NECESSARY DILUTION OF THE SAMPLE, RESULT WAS NOT ATTAINABLE
*L	ANALYTE IS A SUSPECTED LAB CONTAMINANT
*P	A STANDARD WAS USED TO QUANTITATE THIS VALUE
*R	DATA IS NOT USABLE
*T	SURROGATE RECOVERY IS OUTSIDE QC CONTROL LIMITS. NO CORRECTIVE ACTION INDICATED BY METHOD
*V	SAMPLE RESULT IS >4X SPIKED CONCENTRATION, THEREFORE SPIKE IS NOT DETECTABLE
*Y	RESULT NOT ATTAINABLE DUE TO SAMPLE MATRIX INTERFERENCE
@A	RESULTS OUT OF LIMITS DUE TO SAMPLE NON-HOMOGENEITY
@C	*VARIABLE MESSAGE*
@D	RESULT COULD NOT BE CONFIRMED DUE TO MATRIX INTERFERENCE ON THE CONFIRMATION COLUMN
@E	RESULT MAY BE FALSELY ELEVATED DUE TO SAMPLE MATRIX INTERFERENCE
@F	RESULT OUTSIDE OF CONTRACT SPECIFIED QUALITY CONTROL LIMITS
@G	RESULT OUTSIDE OF CONTRACT SPECIFIED ADVISORY LIMITS
@H	DETECTION LIMIT ELEVATED DUE TO MATRIX INTERFERENCE
@M	RESULT NOT CONFIRMED BY U.V. DUE TO SAMPLE MATRIX INTERFERENCE
@N	RESULT NOT CONFIRMED BY FLUORESCENCE DUE TO SAMPLE MATRIX INTERFERENCE
@P	RESULT QUANTITATED USING FLUORESCENCE ONLY DUE TO THE LOW CONCENTRATION
@Q	DETECTION LIMIT ELEVATED DUE TO LIMITED SAMPLE FOR ANALYSIS
@T	RESULT DUE TO TCLP EXTRACTION MATRIX INTERFERENCE. NO QC LIMITS HAVE BEEN ESTABLISHED
@U	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE COMMON FUEL HYDROCARBON FINGERPRINTS
@Z	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE A FUEL HYDROCARBON

ACCESSION #: 511286 INITIALS: LO

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	(NO)
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 ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO (NA)
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO (NA)
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.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.4 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	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

ATI # 511286

CHAIN OF CUSTODY

No. 066943 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering	1575 Treat Blvd #201	Walnut Creek	Ca	94597

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11105	Castro Valley, Ca	10-138-05/01

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Bill Howell	(510) 295-1650	295-1823	G607067

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooton	Renton, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
ATI	San Diego, Ca		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
Larry Duenweide		11-17-95	Fed Ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER 6588023623 3

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-G/BTEX 8015/8020	COMMENTS
S-1	11/17/95	W	2	HCl VOAs	01	X	
S-2					02		
S-3					03		
S-4					04		
S-5					05		
S-6					06		
S-7					07		
S-8					08		
S-9					09		
S-10					10		

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	11/17/95	1505	P. Yelton	11/17/95	1525
P. Yelton	11/17/95	1540	[illegible] / ATI	11/18/95	11:45

ADDITIONAL COMMENTS

2.4°C

CLV-16722
PKG/50

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff