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

96 APR 30 AM 9:49
ENVIRONMENTAL PROTECTION

April 25, 1996

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

RE: BP OIL FACILITY #11102
100 MacArthur Blvd
Oakland CA

Dear Mr. Hiett:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED MARCH 8, 1996** for the above referenced facility. We plan to continue groundwater monitoring during the next quarter.

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\ERM11102

cc: Ms. Jennifer Eberle, Alameda County Health Care Services Agency
1131 Harbor Bay Parkway Room 250, Oakland CA 94621

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

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

Project No. 10-076-05-001

Prepared for:

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

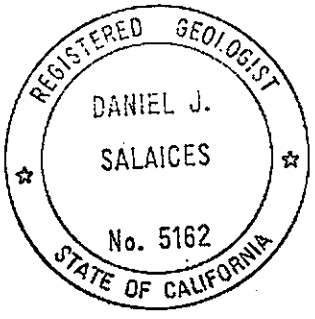
Prepared by:

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

March 8, 1996

William Howell
Project Manager

Dan Salaices
Registered Geologist



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

Project No. 10-076-05-001

March 8, 1996

INTRODUCTION

This report presents the results and findings of the December 27, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11102, 100 MacArthur Boulevard, Oakland, California. A site vicinity map is shown on Figure 1.

FIELD PROCEDURES

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

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

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

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for 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 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.11102
100 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-076

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)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	VOC (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	11/04/89	90.20	13.21	76.99	ND<500	ND<50	3.4	0.6	ND<0.3	ND<0.3	ND<5000	---	0.9	---	---	---	SAL
MW-1	32823.00	90.20	13.32	76.88	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	32966.00	90.20	12.46	77.74	820	---	64	1.9	23	34	---	---	---	---	---	---	ANA
MW-1	33084.00	90.20	12.92	77.28	190	ND<50	11	ND<5.0	ND<5.0	ND<5.0	ND<5000	---	ND	---	---	---	ANA
MW-1	33197.00	90.20	14.08	76.12	50	79	2.4	ND<0.3	ND<0.3	ND<0.3	ND<5000	---	4.0	---	---	---	SAL
MW-1	33298.00	90.20	13.61	76.59	ND<100	ND<1000	0.9	ND<0.3	ND<0.3	0.3	14000	---	ND	---	---	---	SAL
MW-1	33469.00	90.20	15.74	74.46	370	ND<50	35	0.73	6.4	5.6	ND<5000	---	1.4	---	---	---	SEQ
MW-1	33555.00	90.20	14.08	76.12	60	ND<50	0.68	ND<0.3	ND<0.3	ND<0.3	ND<5000	---	1.0	---	---	---	SEQ
MW-1	33658.00	90.20	12.52	77.68	140	100	3.9	0.66	1.2	3.8	ND<5000	---	1.7	---	---	---	SEQ
MW-1	33743.00	90.20	11.60	78.40	4200	910	440	21	250	37	ND<5000	---	ND	---	---	---	SEQ
MW-1	33772.00	90.20	12.01	78.19	4000	560	350	14	150	17	ND<5000	---	ND	---	---	---	SEQ
MW-1	33807.00	90.20	12.42	77.78	4000	---	ND<5.0	18	210	61	---	---	---	---	---	---	ANA
MW-1	33830.00	90.20	12.75	77.45	2400	1700	330	20	150	47	ND<5000	---	ND<2.5	---	---	---	SEQ
MW-1	33919.00	90.20	13.68	76.51	260	92	30	3.4	7.6	6.8	ND<5000	---	ND<2.5	---	---	---	ANA
MW-1	34127.00	90.20	10.93	79.27	3400	440	98	11	21	7.6	---	6.2	0.9	---	---	---	PACE
QC-1 (c)	34127.00	---	---	---	3700	---	120	12	26	9.5	---	---	---	---	---	---	PACE
MW-1	12/02/93	90.20	12.72	77.48	1100	120	8.3	3.6	0.6	1.5	ND<5000	2.6	1.8	---	---	---	PACE
MW-1	06/22/94	90.20	11.81	78.39	2100	ND<50	32	3.8	2.2	17	ND<5000	2.3	3.3	---	---	3.2	PACE
QC-1 (c)	06/22/94	---	---	---	2100	---	30	3.2	2.0	15	---	---	---	---	---	---	PACE
MW-1	01/10/95	90.20	10.97	79.23	ND<500	420	120	ND<5	ND<5	ND<10	---	ND<1	1	---	---	3.9	ATI
QC-1 (c)	01/10/95	---	---	---	ND<500	---	120	ND<5	5	ND<10	---	---	---	---	---	---	ATI
MW-1	06/21/95	90.20	9.38	80.82	4700	1300	16	ND<5.0	ND<5.0	ND<10	2900	2.0	0.38	0.60 (d)	---	6.7	ATI
QC-1 (c)	06/21/95	---	---	---	3600	---	ND<13	ND<5.0	ND<5.0	ND<10	---	---	---	---	---	---	ATI
MW-1	12/27/95	90.20	11.55	78.65	430	2100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	540	0.67	ND<0.20	---	1200	6.3	ATI
MW-2	11/04/89	87.91	15.84	72.07	ND<500	---	6.5	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-2	32823.00	87.91	14.75	73.16	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	32966.00	87.91	15.25	72.66	ND<500	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-2	33084.00	87.91	15.59	72.32	61	---	6.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-2	33197.00	87.91	17.81	70.10	ND<50	---	0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-2	33298.00	87.91	17.11	70.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	4.0	---	---	---	SAL
MW-2	33469.00	87.91	17.97	69.94	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-2	33555.00	87.91	16.76	71.15	38	---	0.32	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-2	33658.00	87.91	15.07	72.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.58	---	---	18	---	---	---	SEQ
MW-2	33743.00	87.91	14.70	73.21	ND<50	---	0.55	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-2	33807.00	87.91	15.60	72.31	90	---	1.3	0.6	0.9	1.9	---	---	---	---	---	---	ANA
MW-2	33830.00	87.91	15.88	72.03	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	33919.00	87.91	16.19	71.72	52	---	2.8	ND<0.5	ND<0.5	0.9	---	---	---	---	---	---	ANA
QC-1 (c)	33919.00	---	---	---	65	---	3.2	ND<0.5	ND<0.5	1.0	---	---	---	---	---	---	ANA
MW-2	34127.00	87.91	14.42	73.49	1200	---	14	2.8	1.9	1.7	---	---	---	---	---	---	PACE
MW-2	12/02/93	87.91	14.94	72.97	790	---	3.4	0.5	10	ND<0.5	---	---	---	---	---	---	PACE
QC-1 (c)	12/02/93	---	---	---	2100	---	32	3.6	2.2	17.00	---	2.3	---	---	---	---	PACE
MW-2	06/22/94	87.91	14.25	73.66	110	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	3.9	PACE
MW-2	01/10/95	87.91	13.64	74.27	ND<50	---	ND<0.5	ND<0.5	0.6	1	---	---	---	---	---	4.3	ATI
MW-2	06/21/95	87.91	11.66	76.25	4700	---	ND<10	ND<10	ND<10	ND<20	---	---	---	---	---	7.8	ATI
MW-2	12/27/95	87.91	13.11	74.80	6100	---	ND<25	ND<25	ND<25	ND<50	---	---	---	---	20000	6.7	ATI
QC-1 (c)	12/27/95	---	---	---	5300	---	ND<25	ND<25	ND<25	ND<50	---	---	---	---	19000	---	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO.11102
100 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-076

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)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	VOC (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	11/04/89	87.02	15.40	71.62	ND<500	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-3	32823.00	87.02	14.10	72.92	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	32968.00	87.02	13.90	73.12	ND<100	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-3	33084.00	87.02	13.77	73.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	---	---	---	---	---	ANA
MW-3	33197.00	87.02	14.87	72.35	ND<50	---	0.3	0.8	0.4	1.5	---	---	---	---	---	---	SAL
MW-3	33298.00	87.02	15.22	71.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	ND	---	---	---	SAL
MW-3	33469.00	87.02	13.15	73.87	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	33565.00	87.02	15.66	71.36	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	33658.00	87.02	15.01	72.01	ND<50	---	0.65	1.4	0.58	4.4	---	---	ND	---	---	---	SEQ
MW-3	33743.00	87.02	15.52	71.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-3	33807.00	87.02	15.63	71.39	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	---	ND<0.50	---	---	---	ANA
MW-3	33830.00	87.02	13.57	73.45	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	33919.00	87.02	14.13	72.89	ND<50	---	ND<0.5	0.7	ND<0.5	1.3	---	---	---	---	---	---	ANA
MW-3	34127.00	87.02	12.13	74.89	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	12/02/93	87.02	13.29	73.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	06/22/94	87.02	12.78	74.24	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	2.9	PACE
MW-3	01/10/95	87.02	12.01	75.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	1	---	---	3.8	ATI
MW-3	06/21/95	87.02	11.57	75.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	7.4	ATI
MW-3	12/27/95	87.02	13.47	73.55	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	5.7	7.3	ATI
QC-2 (c)	33919.00	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
QC-2 (c)	34127.00	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2 (c)	12/02/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2 (c)	06/22/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2 (c)	01/10/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	---	ATI
QC-2 (c)	06/21/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	ATI
QC-2 (c)	12/27/95	---	---	---	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
TOG	Total oil and grease
1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane
VOC	Volatile organic compounds
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not analyzed/measured/applicable
SAL	Superior Analytical Laboratory
ANA	Anametrix, Inc.
SEQ	Sequoia Analytical Laboratory
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.

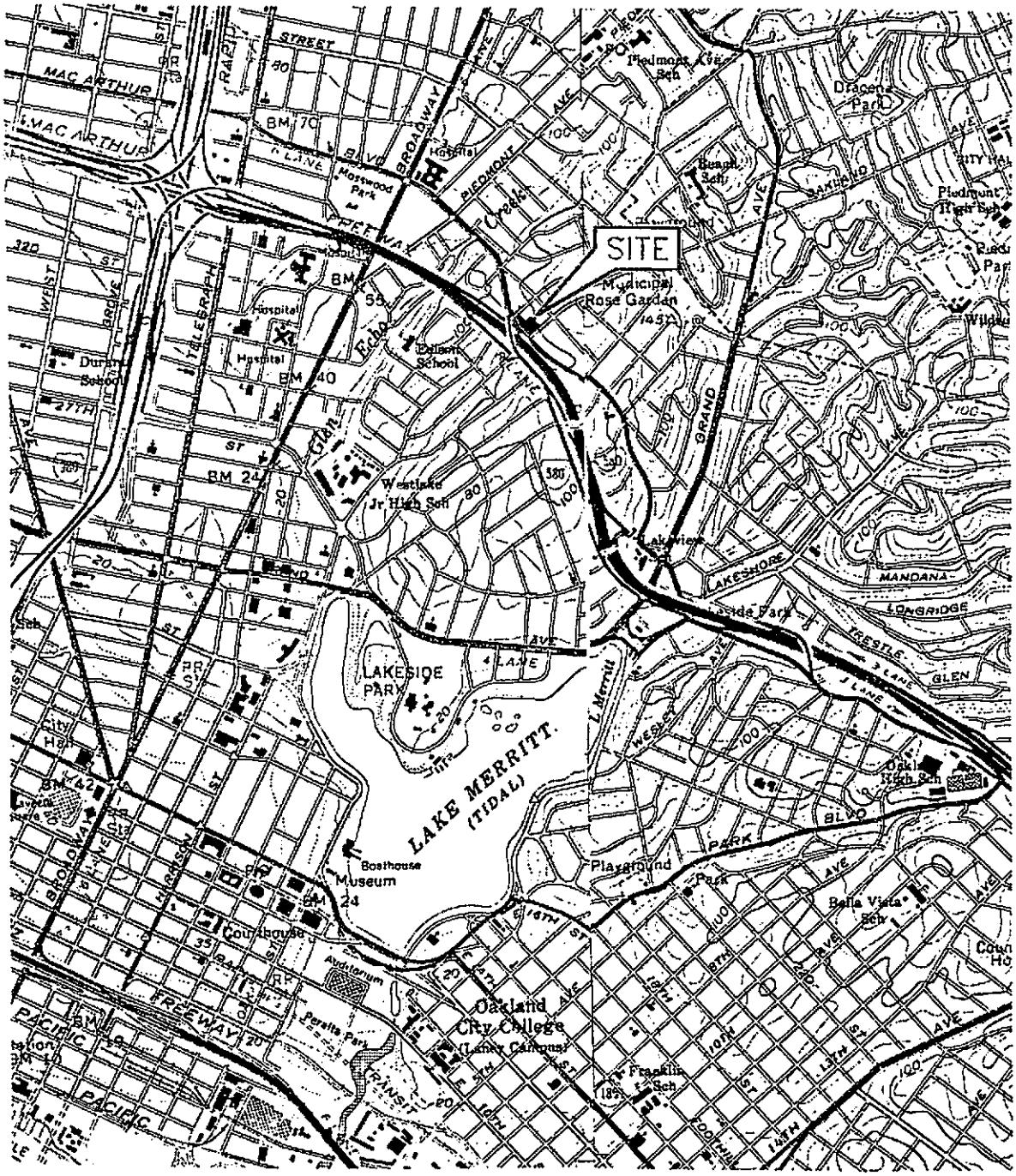
(b) Groundwater elevations in feet above mean sea level.

(c) Blind duplicate.

(d) Tetrachloroethene

(e) Travel blank.

E:\0\10-076-5-1



SOURCE:
USGS MAP, OAKLAND EAST & WEST QUADRANGLES, CALIFORNIA. 7.5 MINUTE SERIES. 1959. PHOTOREVISED 1980.

N

0 1000' 2000'

FIGURE 1

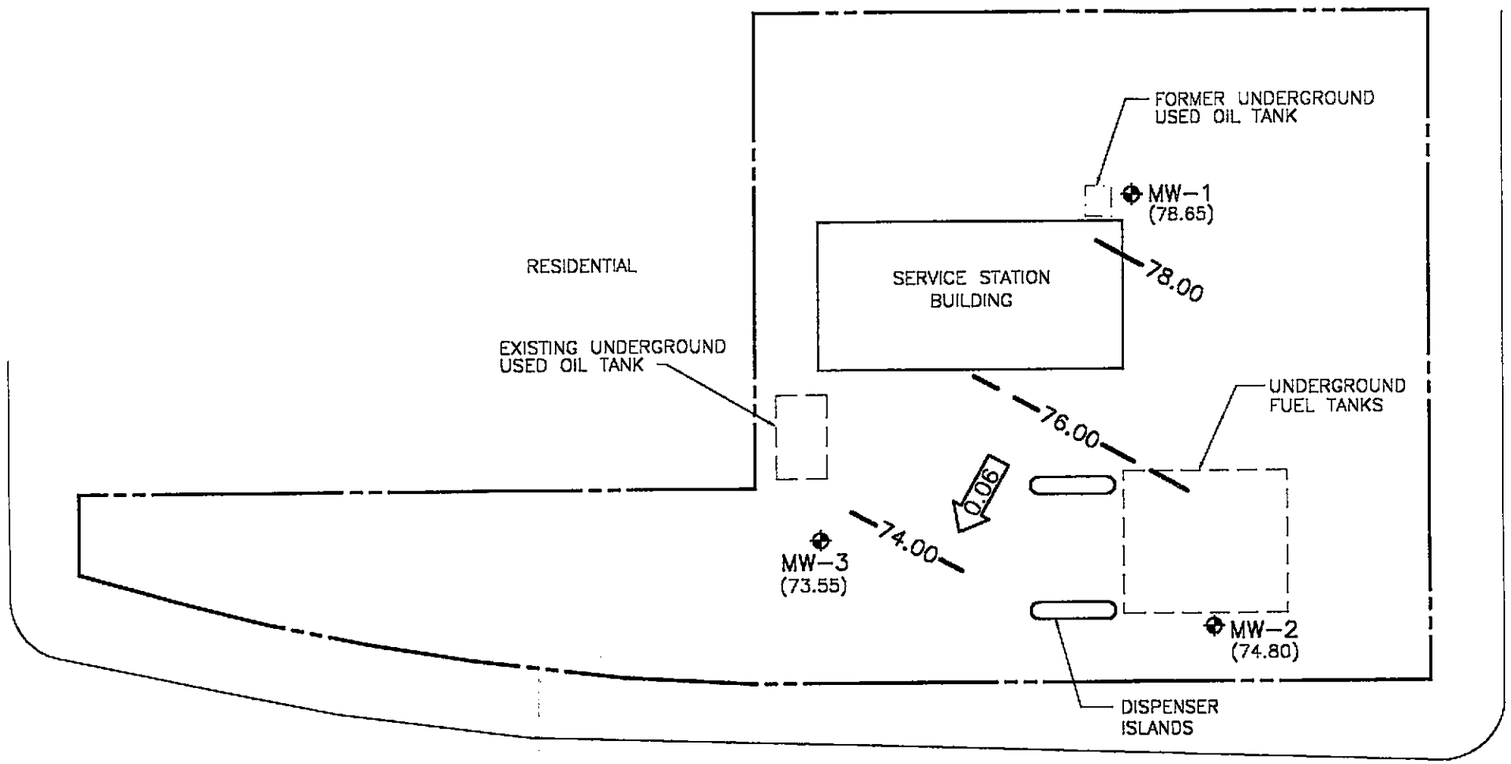
SITE VICINITY MAP

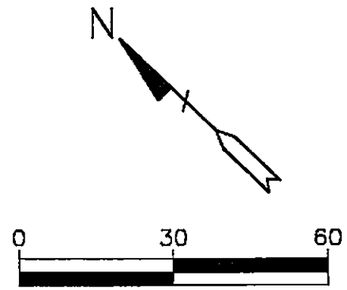
BP OIL SERVICE STATION NO. 11102
100 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10-076

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10076B---DWG 7-16-93 KH 1=1





LEGEND

- ◆ GROUNDWATER MONITORING WELL
- (73.55) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 74.00 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL–2.00 FEET)
- 0.06 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2

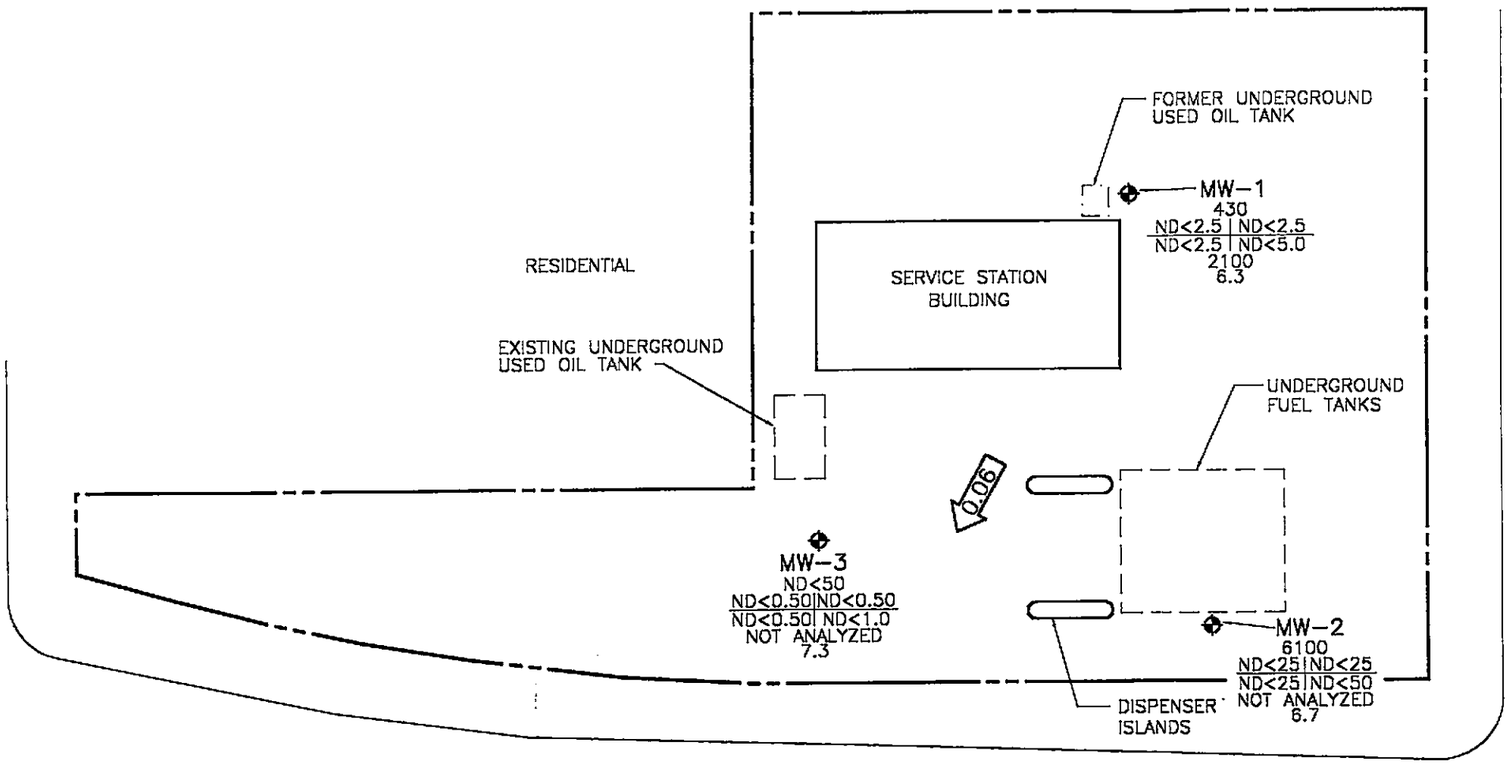
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

DECEMBER 27, 1995

BP OIL SERVICE STATION NO. 11102
100 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10–076

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA



N

0 30 60

SCALE IN FEET

LEGEND

⊕	GROUNDWATER MONITORING WELL
TPH-G / B | T / E | X / TPH-D / 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
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
DO	DISSOLVED OXYGEN
ND	NOT DETECTED ABOVE REPORTED DETECTION LIMIT
⇦ 0.06	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

DECEMBER 27, 1995

BP OIL SERVICE STATION NO. 11102
100 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10-076

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10076E-P.DWG 2-28-96 BKW 1=30

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

990
5 cm
610

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. 10-076-05-001 Date: 12/27/95
Address 100 MacArthur Blvd Day: M T W TH F
Contract No. G602063 City: Oakland
Station No. BP 11102 Sampler: LCS

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME SAMPLED	COMMENTS: QC-2 is S-5 (TB) Semi=June/Dec
MW-1	S-3	4"	23.20	11.55	∅		QC-1 Dup (S-4) from ~~this~~ well MW-2
MW-2	S-2	4"	24.80	13.11	↓	1320	QC-1 = (S-4)
MW-3	S-1	4"	23.60	13.47	↓	1235	

FIELD INSTRUMENT CALIBRATION DATA

pH METER Icm 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED (Y) N TIME 0930 WEATHER Cloudy

D.O. METER Icm ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE _____ TEMP _____

CONDUCTIVITY METER Icm 10,000 ~~10,00~~ other TURBIDITY METER _____ 5.0 NTU _____ OTHER _____

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
MW-3	13.47	4"	Replaced	∅	Y (N)	7	1210	69.2	7.13	1.21 ms	6.9
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			13		68.6	6.98	1.13 ms	
23.60 - 13.47 = 10.13	X .65 = 6.58	X3 = 19.74				20	1224	68.2	6.87	1.11 ms	7.3
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** 1235

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
MW-2	13.11	4"	O/C	∅	Y (N)	8	1252	68.7	6.82	1.39 ms	7.1
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			14		68.1	6.71	1.17 ms	
24.80 - 13.11 = 11.69	X .65 = 7.60	X3 = 22.80				23	1310	67.2	6.63	1.16 ms	6.7
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** 1320

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. 10-076-05-001 Date: 12/27/95
Address 100 MacArthur Blvd Day: M T W TH F
Contract No. G602063 City: Oakland
Station No. BP 11102 Sampler: WS

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-1	11.55	4"	OK	Ø	Y (N)	7	1336	70.2	7.32	1.21ms	6.4
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			15		68.3	7.21	1.08ms	
23.20-11.55= 11.65	X.165= 7.57	X3= 22.71				23	1351	68.0	7.16	1.06ms	6.3

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

Comments: QC-1 (S-4) from this well

- O EPA 601____
- (X) TPH-G/BTEX HLL
- O TPH Diesel____
- O TOG 5520 ___

TIME/SAMPLE ID: 1400

QC-1 = S-4

QC-2 - S-5

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.: 512315

January 17, 1996

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

Project Name: BP SITE #11102/OAKLAND, CA
Project # : G602063/10-076-05/001

Attention: BRADY NAGLE

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

Date Received	Quantity	Matrix
December 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.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

RECEIVED
JAN 22 1996

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

Report Date: January 17, 1996
ATI I.D. : 512315

ATI #	Client Description	Matrix	Date Collected
1	S-1	WATER	27-DEC-95
2	S-2	WATER	27-DEC-95
3	S-3	WATER	27-DEC-95
4	S-4	WATER	27-DEC-95
5	S-5	WATER	27-DEC-95

---TOTALS---

Matrix	# Samples
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 Technologies, Inc. ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D.: 512315

Analysis	Technique/Description
EPA 413.2 (OIL & GREASE)	INFRARED SPECTROMETER
EPA 601 (HALOGENATED VOLATILE ORGANICS)	GC/ELECTROLYTIC CONDUCTIVITY DETECTOR
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS-EXT. RANGE)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D.: 512315

Sample #	Client ID	Matrix	Date Sampled	Date Received
3	S-3	WATER	27-DEC-95	30-DEC-95

Parameter	Units	3
OIL AND GREASE	MG/L	0.64

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

DUP/MS

Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315

Parameters	REF I.D.	Units	Sample Result	Dup Result	RPD	Spiked Sample	Spike Conc	% Rec
OIL AND GREASE	601108-02	MG/L	<0.05	<0.05	0	4.1	5	82

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

GENERAL CHEMISTRY - QUALITY CONTROL

BLANK SPIKE

Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315

Parameters	Blank Spike ID#	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
OIL AND GREASE	60981	MG/L	<0.05	3.5	5.0	70

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

Test : EPA 601 (HALOGENATED VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 512315
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
3	S-3	WATER	27-DEC-95	N/A	02-JAN-96	1.00

Parameter	Units	3
BROMODICHLOROMETHANE	UG/L	<0.20
BROMOFORM	UG/L	<1.0
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.20
CHLOROBENZENE	UG/L	<0.50
CHLOROETHANE	UG/L	<1.0
CHLOROFORM	UG/L	<0.20
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.20
1,2-DICHLOROBENZENE	UG/L	<0.50
1,3-DICHLOROBENZENE	UG/L	<0.50
1,4-DICHLOROBENZENE	UG/L	<0.50
DICHLORODIFLUOROMETHANE	UG/L	<1.0
1,1-DICHLOROETHANE	UG/L	0.67
1,2-DICHLOROETHANE	UG/L	<0.20
1,1-DICHLOROETHENE	UG/L	<0.20
CIS-1,2-DICHLOROETHENE	UG/L	<0.20
TRANS-1,2-DICHLOROETHENE	UG/L	<0.20
1,2-DICHLOROPROPANE	UG/L	<0.20
CIS-1,3-DICHLOROPROPENE	UG/L	<0.20
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.20
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.50
TETRACHLOROETHENE	UG/L	<0.20
1,1,1-TRICHLOROETHANE	UG/L	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.20
TRICHLOROETHENE	UG/L	<0.20
TRICHLOROFLUOROMETHANE	UG/L	<2.0
VINYL CHLORIDE	UG/L	<0.20
SURROGATES		
BROMOFLUOROBENZENE (ELCD)	%	98
BROMOFLUOROBENZENE (PID)	%	91

REAGENT BLANK

Test : EPA 601 (HALOGENATED VOLATILE ORGANICS)
Blank I.D. : 37767
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 02-JAN-96
Dil. Factor : 1.00

Parameters	Units	Results
BROMODICHLOROMETHANE	UG/L	<0.20
BROMOFORM	UG/L	<1.0
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.20
CHLOROBENZENE	UG/L	<0.50
CHLOROETHANE	UG/L	<1.0
CHLOROFORM	UG/L	<0.20
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.20
1,2-DICHLOROBENZENE	UG/L	<0.50
1,3-DICHLOROBENZENE	UG/L	<0.50
1,4-DICHLOROBENZENE	UG/L	<0.50
DICHLORODIFLUOROMETHANE	UG/L	<1.0
1,1-DICHLOROETHANE	UG/L	<0.20
1,2-DICHLOROETHANE	UG/L	<0.20
1,1-DICHLOROETHENE	UG/L	<0.20
CIS-1,2-DICHLOROETHENE	UG/L	<0.20
TRANS-1,2-DICHLOROETHENE	UG/L	<0.20
1,2-DICHLOROPROPANE	UG/L	<0.20
CIS-1,3-DICHLOROPROPENE	UG/L	<0.20
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.20
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.50
TETRACHLOROETHENE	UG/L	<0.20
1,1,1-TRICHLOROETHANE	UG/L	<0.20
1,1,2-TRICHLOROETHANE	UG/L	<0.20
TRICHLOROETHENE	UG/L	<0.20
TRICHLOROFLUOROMETHANE	UG/L	<2.0
VINYL CHLORIDE	UG/L	<0.20
SURROGATES		
BROMOFLUOROBENZENE (ELCD)	%	93
BROMOFLUOROBENZENE (PID)	%	88

MSMSD

Test : EPA 601 (HALOGENATED VOLATILE ORGANICS)
MSMSD # : 81102
Client : ALISTO ENGINEERING

Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 05-JAN-96
Sample Matrix : WATER
REF I.D. : 512315-03

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
CHLOROBENZENE	UG/L	<0.50	4.0	4.0	100	4.4	110	10
CHLOROFORM	UG/L	<0.20	2.0	1.9	95	2.1	105	10
1,1-DICHLOROETHENE	UG/L	<0.20	2.0	2.3	115	2.4	120	4
TETRACHLOROETHENE	UG/L	<0.20	2.0	2.0	100	2.1	105	5
TRICHLOROETHENE	UG/L	<0.20	2.0	2.0	100	2.1	105	5

% 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 : EPA 601 (HALOGENATED VOLATILE ORGANICS)
Blank Spike #: 60836
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name : BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 02-JAN-96
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
CHLOROBENZENE	UG/L	<0.50	4.0	4.0	100
CHLOROFORM	UG/L	<0.20	1.9	2.0	95
1,1-DICHLOROETHENE	UG/L	<0.20	2.2	2.0	110
TETRACHLOROETHENE	UG/L	<0.20	1.9	2.0	95
TRICHLOROETHENE	UG/L	<0.20	2.0	2.0	100

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

Analytical Technologies, Inc. GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS-EXT. RANGE)
Client : ALISTO ENGINEERING ATI I.D. : 512315
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
3	S-3	WATER	27-DEC-95	08-JAN-96	09-JAN-96	1.00

Parameter	Units	3
FUEL HYDROCARBONS	MG/L	0.63
HYDROCARBON RANGE		C25-C40
HYDROCARBONS QUANTITATED USING		30W

Waste Oil Range BH

Analytical Technologies, Inc. GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
3	S-3	WATER	27-DEC-95	08-JAN-96	08-JAN-96	1.00

Parameter	Units	3
FUEL HYDROCARBONS	MG/L	2.1
HYDROCARBON RANGE		C7-C24+
HYDROCARBONS QUANTITATED USING		DIESEL
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	95

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 37803
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: 08-JAN-96
Date Analyzed : 08-JAN-96
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	102

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 81142
Client : ALISTO ENGINEERING

Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: 08-JAN-96
Date Analyzed : 08-JAN-96
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.05	1.0	11	110	11	110	0

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

AnalyticalTechnologies, Inc. GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 512315
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	S-1	WATER	27-DEC-95	N/A	06-JAN-96	1.00
2	S-2	WATER	27-DEC-95	N/A	06-JAN-96	50.00
3	S-3	WATER	27-DEC-95	N/A	06-JAN-96	5.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	5.7	20000	1200
BENZENE	UG/L	<0.50	<25	<2.5
TOLUENE	UG/L	<0.50	<25	<2.5
ETHYLBENZENE	UG/L	<0.50	<25	<2.5
XYLENES (TOTAL)	UG/L	<1.0	<50	<5.0
FUEL HYDROCARBONS	UG/L	<50	6100	430
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	102	98	93

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 512315
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	S-4	WATER	27-DEC-95	N/A	07-JAN-96	50.00
5	S-5	WATER	27-DEC-95	N/A	06-JAN-96	1.00

Parameter	Units	4	5
METHYL T-BUTYL ETHER	UG/L	19000	<5.0
BENZENE	UG/L	<25	<0.50
TOLUENE	UG/L	<25	<0.50
ETHYLBENZENE	UG/L	<25	<0.50
XYLENES (TOTAL)	UG/L	<50	<1.0
FUEL HYDROCARBONS	UG/L	6300	<50
HYDROCARBON RANGE		C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE
SURROGATES			
TRIFLUOROTOLUENE	%	100	99

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37794
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 06-JAN-96
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	%	94

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37795
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 07-JAN-96
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 # : 81137
Client : ALISTO ENGINEERING

Project # : G602063/10-076-05/001
Project Name: BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 08-JAN-96
Sample Matrix : WATER
REF I.D. : 512315-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	4.8	96	5.2	104	8
TOLUENE	UG/L	<0.50	5.0	4.8	96	5.2	104	8

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

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 60892
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name : BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 06-JAN-96
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.4	5.0	108
TOLUENE	UG/L	<0.50	5.5	5.0	110

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

BLANK SPIKE

est : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 60893
Client : ALISTO ENGINEERING
Project # : G602063/10-076-05/001
Project Name : BP SITE #11102/OAKLAND, CA

ATI I.D. : 512315
Date Extracted: N/A
Date Analyzed : 07-JAN-96
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.3	5.0	106
TOLUENE	UG/L	<0.50	5.3	5.0	106

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

ACCESSION #: 572315 INITIALS: SR

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 ? (N/A)	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ? (N/A)	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.	(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.	2.0 °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

512815

BP

CHAIN OF CUSTODY

No. 066950 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering	1575 Treat Blvd #201 W C	Ca		94598

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11102	Oakland Ca	10-076-05/001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Brady Nagle	(510) 295-1650	295-1823	G602063

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

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

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
Larry Brueswitz	[signature]	12-28-95	Fed Ex

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

ANALYSIS REQUIRED

AIRBILL NUMBER: 668235015

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	TYPE (VOL.)	PRESERVATIVE / LAB SAMPLE #	TPH-G/BTEX	TPH-D	TOG							COMMENTS
S-1	12/27/95	W	2	HCL	01	X									
S-2	↓	↓	2	↓	02	X									
S-3	↓	↓	6	↓	03	X	X	X	X	X					
S-4	↓	↓	2	↓	04	X									
S-5	↓	↓	2	↓	05	X									

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	12/28/95		P. Galton	12/28/95	1
P. Galton	12/29/95	1500	[signature]	12/29/95	1100

ADDITIONAL COMMENTS

CLV-16722
PKG/50

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