



BP OIL

BP Oil Company
Environmental Resources Management
Building 13, Suite N
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667

January 24, 1995

Ms. Juliet Shin
Alameda County Health Care Services Agency
1131 Harbour Bay Parkway, Room 250
Alameda, CA 94502-6577

**RE: BP OIL FACILITY #11270
3255 Mecartney Road
Alameda, CA**

Dear Ms. Shin:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING
REPORT DATED JANUARY 4, 1995** for the above referenced facility.

Please note that the additional assessment work discussed during our November 8, 1994 meeting is underway. You should receive a report within the next six to eight weeks.

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

Respectfully,

Scott T. Hooton
Environmental Resources Management
Group Leader

STH:mu msword/ERM11270

cc: Mr. Larry Cummins, RREEF Engineering Group, 1301 Dove Street, #460,
Newport Beach, CA 92660

Mr. Eddy So, CRWQCB, San Francisco Bay Region, 2101 Webster St. Suite 500,
Oakland CA 94612

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

page 2

cc: continued

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

Mr. Jim Pate, RREEF Management Company, 230-A Alamo Plaza, Alamo, CA
94507

Mr. Scott Kellstedt, Hydro-Environmental Technologies, Inc., 2363 Mariner
Square Drive, Suite 243, Alameda, CA 94501

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

JAN 11 1995

BP Oil Company Service Station No. 11270
3255 Mecartney Road
Alameda, California

BP OIL CO.
ENVIRONMENTAL DEPT.
WEST OAKLAND, CALIF.

Project No. 10-206-01-003

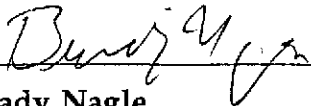
Prepared for:


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

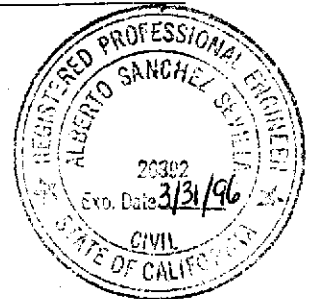
Prepared by:

Alisto Engineering Group
1777 Oakland Boulevard, Suite 200
Walnut Creek, California
295-1650

January 4, 1995


Brady Nagle
Project Manager


Al Sevilla, P.E.
Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11270
3255 Mecartney Road
Alameda, California

Project No. 10-206-01-003

January 4, 1995

INTRODUCTION

This report presents the results and findings of the October 26, 1994 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11270, 3255 Mecartney Road, Alameda, California. A site vicinity map is shown in 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, and electrical conductivity. 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 in Figure 2. The results of groundwater analysis are shown in 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. 11270
 3255 MECARTNEY ROAD, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-206

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW-1 (c)	10/29/92	12.50	7.28	5.22	---	---	---	---	---	---	---	---	---
MW-1 (c)	06/21/93	12.50	5.40	7.10	---	---	---	---	---	---	---	---	---
MW-1	04/05/94	12.50	5.64	6.86	1700	---	20	1.1	3.9	7.6	---	---	PACE
MW-1	07/28/94	12.50	6.22	6.28	---	---	---	---	---	---	---	---	PACE
MW-1	10/26/94	12.50	6.40	6.10	---	---	---	---	---	---	---	---	---
MW-2	10/29/92	12.08	6.84	5.24	2500	3900	140	ND<10	65	22	ND	---	---
MW-2	06/21/93	12.08	5.49	6.59	720	770	12	1.5	11	12	---	---	---
MW-2	04/05/94	12.08	5.40	6.68	420	1300	ND<0.5	ND<0.5	ND<0.5	4.0	---	1.8	PACE
MW-2	07/28/94	12.08	5.97	6.11	---	---	---	---	---	---	---	---	PACE
MW-2	10/26/94	12.08	6.10	5.98	---	---	---	---	---	---	---	---	---
MW-3 (c)	10/29/92	12.09	7.14	4.95	---	---	---	---	---	---	---	---	---
MW-3 (c)	06/21/93	12.09	5.84	6.25	---	---	---	---	---	---	---	---	---
MW-3	04/05/94	12.09	5.83	6.26	990	4300	3.2	ND<0.5	ND<0.5	1.3	---	---	PACE
MW-3	07/28/94	12.09	6.32	5.77	---	---	---	---	---	---	---	---	PACE
MW-3	10/26/94	12.09	6.42	5.67	---	---	---	---	---	---	---	---	---
MW-4	10/29/92	12.14	6.90	5.24	2600	---	250	2.5	74	6.6	---	---	---
MW-4	06/21/93	12.14	5.54	6.60	1400	1100	24	2.9	2.6	7.9	---	---	---
MW-4	04/05/94	12.14	5.46	6.68	930	940	33	0.8	ND<0.5	2.8	---	2.7	PACE
MW-4	07/28/94	12.14	6.02	6.12	2400	1400	19	1.8	0.5	8.0	---	6.7	PACE
QC-1 (d)	07/28/94	---	---	---	2300	---	19	1.7	0.5	7.4	---	---	PACE
MW-4	10/26/94	12.14	6.13	6.01	---	---	---	---	---	---	---	---	---
MW-5	06/21/93	13.37	7.44	5.93	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---
MW-5	04/05/94	13.37	7.42	5.95	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.5	PACE
QC-1 (d)	04/05/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-5	07/28/94	13.37	7.88	5.49	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	7.4	PACE
MW-5	10/26/94	13.37	7.92	5.45	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	5.5	PACE
QC-1 (d)	10/26/94	---	---	---	ND<50	---	ND<0.5	0.5	ND<0.5	ND<0.5	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11270
 3255 MECARTNEY ROAD, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-206

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	HVOC (ppb)	DO (ppm)	LAB
XW-1	06/21/93	--	--	--	--	--	--	--	--	--	--	--	--
XW-1	04/05/94	--	5.36	--	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	3.0	PACE
XW-1	07/28/94	--	5.92	--	--	--	--	--	--	--	--	--	PACE
XW-1	10/26/94	--	6.05	--	--	--	--	--	--	--	--	--	--
XW-2	06/21/93	12.50	5.89	6.61	--	--	--	--	--	--	--	--	--
XW-2	04/05/94	12.50	5.77	6.73	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	3.0	PACE
XW-2	07/28/94	12.50	6.25	6.25	--	--	--	--	--	--	--	--	PACE
XW-2	10/26/94	12.50	6.39	6.11	--	--	--	--	--	--	--	--	--
XW-3	06/21/93	11.85	5.85	6.00	--	--	--	--	--	--	--	--	--
XW-3	04/05/94	11.85	5.85	6.00	ND<50	150	ND<0.5	0.7	ND<0.5	ND<0.5	--	3.1	PACE
XW-3	07/28/94	11.85	6.28	5.57	--	--	--	--	--	--	--	--	PACE
XW-3	10/26/94	11.85	6.40	5.45	--	--	--	--	--	--	--	--	--
QC-2 (e)	04/05/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (e)	07/28/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-2 (e)	10/26/94	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE

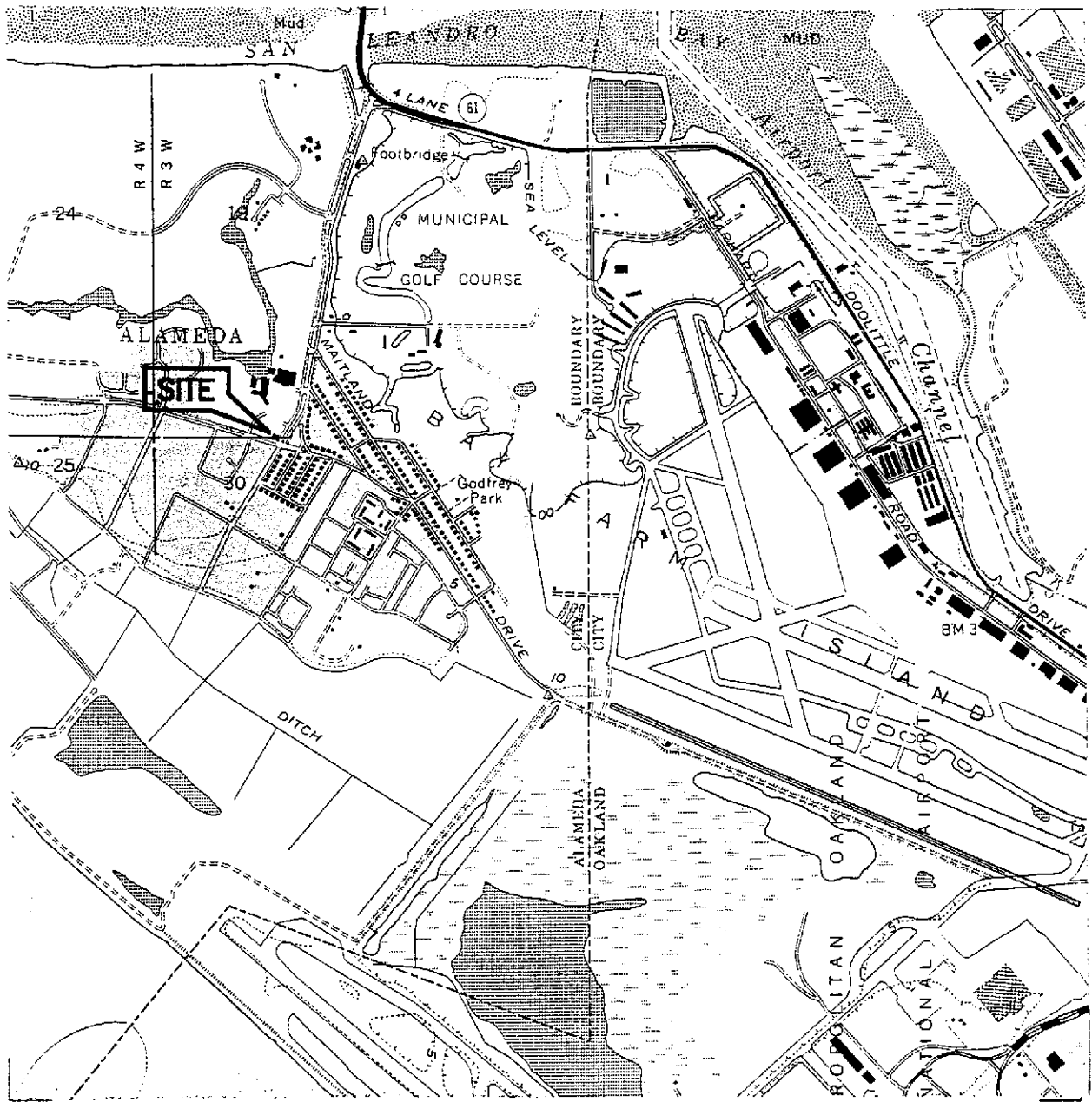
ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel.
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 HVOC Halogenated volatile organic compounds
 DO Dissolved oxygen
 ppb Parts per billion
 ppm Parts per million
 -- Not analyzed/measured/applicable
 ND Not detected above reported detection limit
 PACE Pace, Inc.

NOTES:

(a) Casing elevations surveyed to nearest 0.01 foot above mean sea level.
 (b) Groundwater elevations in feet above mean sea level.
 (c) Not sampled due to inadequate recharge.
 (d) Blind duplicate.
 (e) Travel blank.

E:\QPRO4\10-206\206-1-3.WQ1



SOURCE:
 USGS MAP, SAN LEANDRO QUADRANGLE,
 7.5 MINUTE SERIES, 1959,
 PHOTOREVISED 1980.

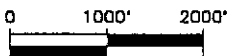


FIGURE 1

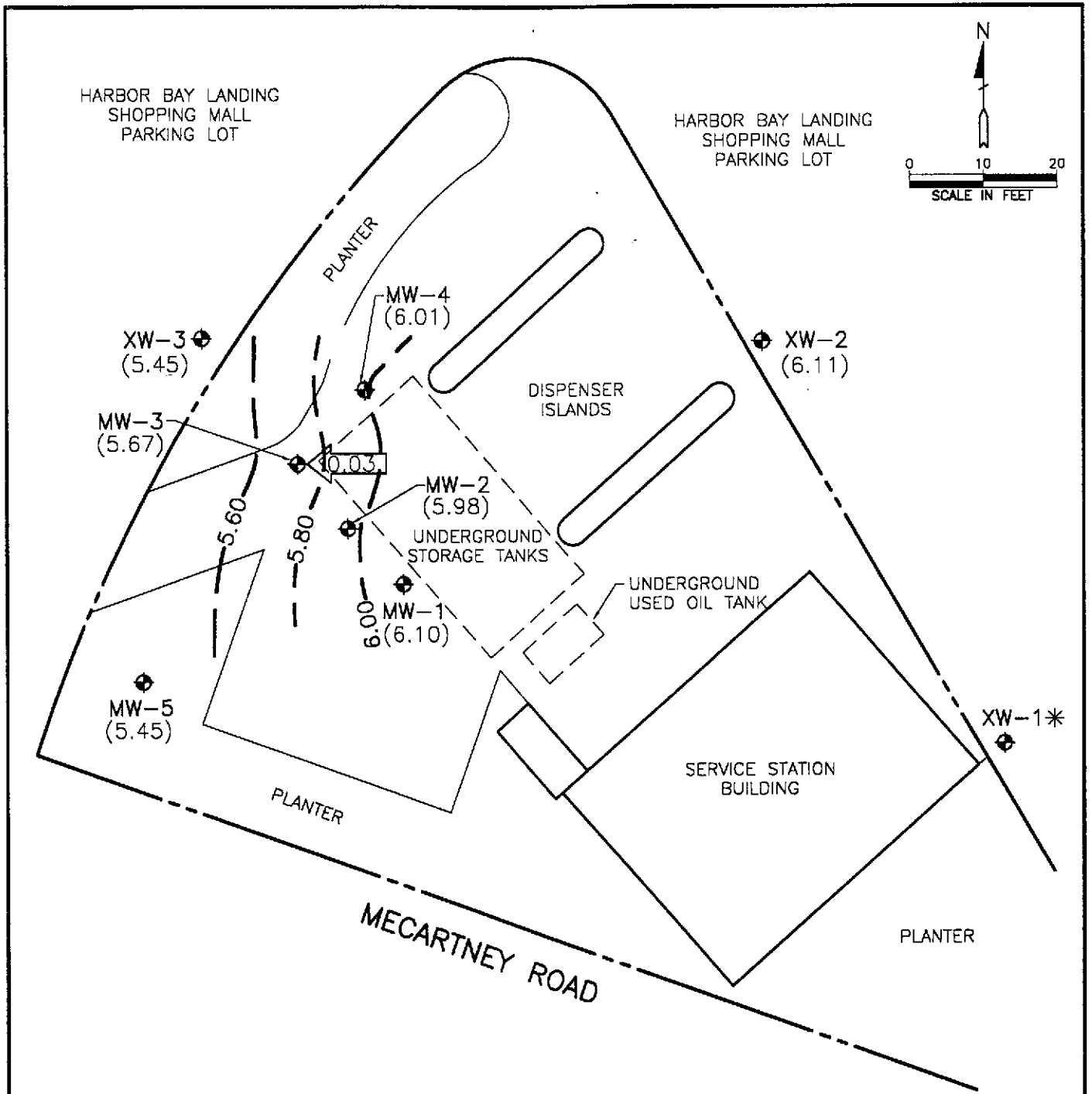
VICINITY MAP

BP OIL SERVICE STATION NO. 11270
 3255 MECARTNEY ROAD
 ALAMEDA, CALIFORNIA

PROJECT NO. 10-206



ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- (6.10) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 6.00 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.20 FOOT)
- ← 0.03 ← CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
- * TOP OF CASING NOT SURVEYED

FIGURE 2

POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

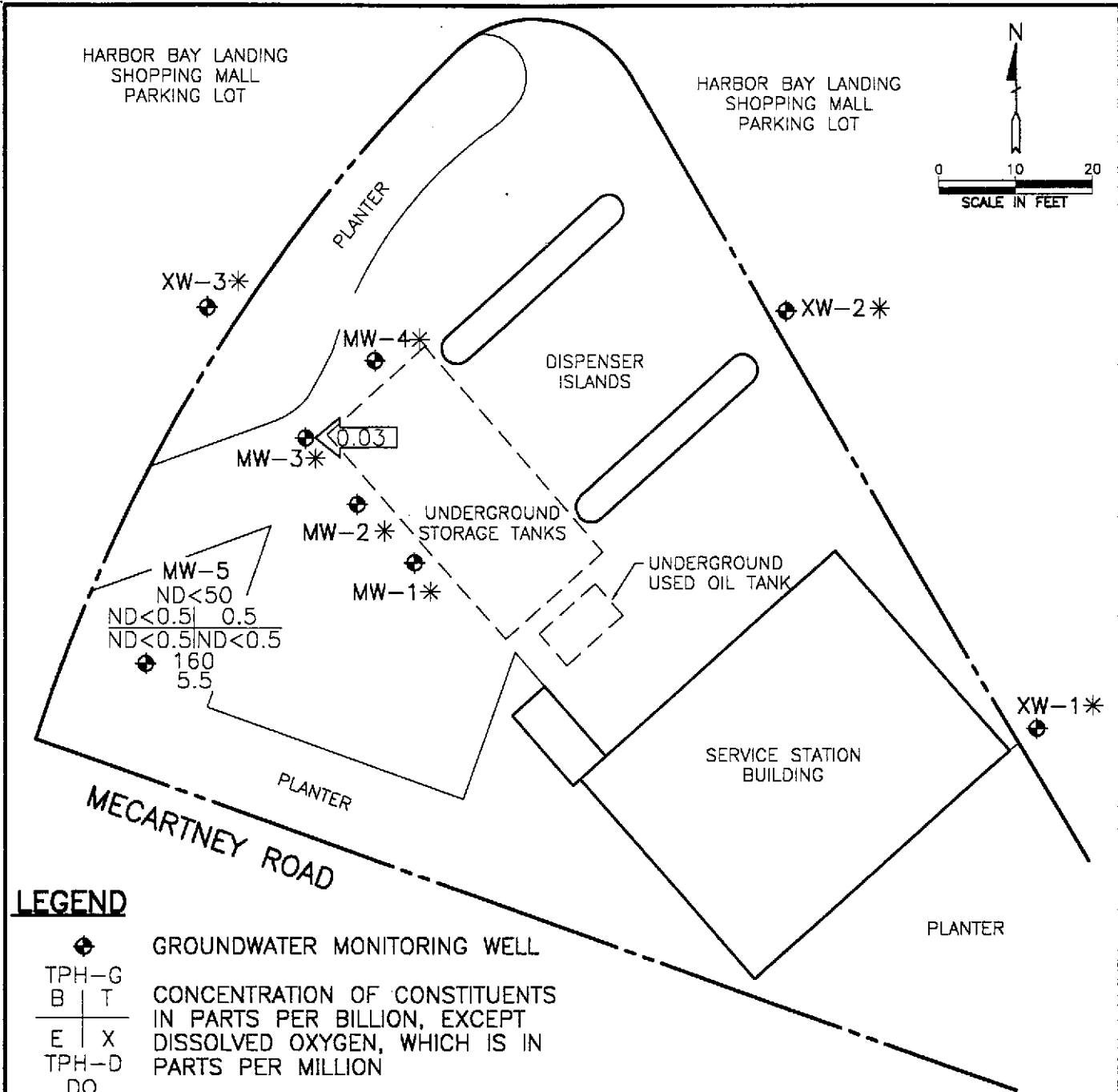
OCTOBER 26, 1994

BP OIL SERVICE STATION NO. 11270
 3255 MECARTNEY ROAD
 ALAMEDA, CALIFORNIA

PROJECT NO. 10-206



ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- TPH-G
B | T
E | X
TPH-D
DO
CONCENTRATION OF CONSTITUENTS IN PARTS PER BILLION, 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
- ← 0.03 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
- * NOT SAMPLED

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
OCTOBER 26, 1994
 BP OIL SERVICE STATION NO. 11270
 3255 MECARTNEY ROAD
 ALAMEDA, CALIFORNIA
 PROJECT NO. 10-206



APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP

Groundwater Sampling

Date: 10/26/94 Project No. 10-206-01-0031

1777 OAKLAND BLVD, STE 200

Barometric pres. 761

Day: M T W Th F Facility No. 11270

WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Temp. 83.1°F Address McCarthy Rd, Alameda CA

SAMPLER: _____

Well ID	SAMPLE #	WATER	time	Well ID	SAMPLE #	WATER/	time	Well ID	SAMPLE	WATER / time
* XW-1	see pg 2	6.05	1202	* MW2	see pg 2	6.10	1217			
* XW-2	" "	6.39	1205	* MW3	" "	6.42	1222			
* XW-3	" "	6.40	1208	* MW1	" "	6.40	1227			
MW5	S-1	7.92	1211							
MW-4	** see pg 2	6.13	1215							

FIELD INSTRUMENT CALIBRATION DATA

Ph METER 4.00 / 7.00 / 10.00 TIME 1135 TEMPERATURE COMPENSATED Y N
 TURBIDI METER 5.0 NTU STANDARD OTHER _____
 CONDUCTIVITY METER 10,000 OTHER _____
Ion DO meter O/Soln .30 @ 1145

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW5	7.92	4"	OK	Ø	Y <input checked="" type="radio"/> N	5	1253	70.7	6.66	2.79	5.5	<input type="radio"/> EPA 601
Total Depth - Water Level =						10	1302	69.2	7.36	2.70		<input checked="" type="radio"/> TPH-G/BTEX <u>LXL</u>
14.51 - 7.92 = 6.59 x .65 = 4.28 x 3 = 12.85						13	dry	-	-	-	-	<input checked="" type="radio"/> TPH Diesel
Purge Method: <input type="radio"/> Surface Pump <input type="radio"/> Disp. Tube <input type="radio"/> Winch <input checked="" type="radio"/> Disp. Bailer(s) <input type="radio"/> Sys Port												<input type="radio"/> TOG 5520
Comments: <u>QC-1 from this well (S-2)</u>												Time/Sample

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
					Y <input type="radio"/> N							<input type="radio"/> EPA 601
Total Depth - Water Level =												<input type="radio"/> TPH-G/BTEX
Purge Method: <input type="radio"/> Surface Pump <input type="radio"/> Disp. Tube <input type="radio"/> Winch <input type="radio"/> Disp. Bailer(s) <input type="radio"/> Sys Port												<input type="radio"/> TPH Diesel
Comments:												<input type="radio"/> TOG 5520
												Time/ Sample

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
					Y <input type="radio"/> N							<input type="radio"/> EPA 601
Total Depth - Water Level =												<input type="radio"/> TPH-G/BTEX
Purge Method: <input type="radio"/> Surface Pump <input type="radio"/> Disp. Tube <input type="radio"/> Winch <input type="radio"/> Disp. Bailer(s) <input type="radio"/> Sys Port												<input type="radio"/> TPH Diesel
Comments:												<input type="radio"/> TOG 5520
												Time /Sample

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING GROUP
 1777 OAKLAND BLVD, STE 200
 WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Groundwater Sampling

Date: 10/26/94 Project No. 10-206-01-003
 Day: Wed Station No. 11270
 Weather: Sunny Address McCourtney Rd, Alameda CA
 SAMPLER: DC

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	D.O.	
												<input type="checkbox"/> EPA 601
												<input type="checkbox"/> TPH-G/BTEX
												<input type="checkbox"/> TPH Diesel
												<input type="checkbox"/> TOG 5520
Total Depth - Water Level = x Well Vol. Factor = x#vol. to Purge = PurgeVol.												Time Sampled
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												
Comments:												
Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	D.O.	
												<input type="checkbox"/> EPA 601
												<input type="checkbox"/> TPH-G/BTEX
												<input type="checkbox"/> TPH Diesel
												<input type="checkbox"/> TOG 5520
Total Depth - Water Level = x Well Vol. Factor = x#vol. to Purge = PurgeVol.												Time Sampled
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												
Comments:												
Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	D.O.	
												<input type="checkbox"/> EPA 601
												<input type="checkbox"/> TPH-G/BTEX
												<input type="checkbox"/> TPH Diesel
												<input type="checkbox"/> TOG 5520
Total Depth - Water Level = x Well Vol. Factor = x#vol. to Purge = PurgeVol.												Time Sampled
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Baller(s) <input type="checkbox"/> Sys Port												
Comments:												

* xw-1,2,3 & MW-1,2,3 were not to be sampled @ this quarter

** Earth Technology Corporation was drilling borehole near MW-4 after I had tagged it (Another borehole was to be drilled the same day)

- MW4 needs some kind of cap; binch will not fit; also casing is damaged in MW1 & MW2 & a 4" cap will not fit in those wells, I did get a cap & lock on MW3

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



REPORT OF LABORATORY ANALYSIS

Alisto Engineering Group
 1777 Oakland Blvd., Ste. 200
 Walnut Creek, CA 94596

November 04, 1994
 PACE Project Number: 441028510

Attn: Mr. Bill Howell

Client Reference: BP Site #11270/10-206-01-003

PACE Sample Number: 70 0433908
 Date Collected: 10/26/94
 Date Received: 10/28/94
 Client Sample ID: S-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/31/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/31/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/31/94
Benzene	ug/L	0.5	ND	10/31/94
Toluene	ug/L	0.5	ND	10/31/94
Ethylbenzene	ug/L	0.5	ND	10/31/94
Xylenes, Total	ug/L	0.5	ND	10/31/94

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel	mg/L	0.05	0.16 B	11/02/94
Date Extracted			10/31/94	



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 2

November 04, 1994
PACE Project Number: 441028510

Client Reference: BP Site #11270/10-206-01-003

PACE Sample Number: 70 0433916
Date Collected: 10/26/94
Date Received: 10/28/94
Client Sample ID: S-2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/31/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	ND	10/31/94
Toluene	ug/L	0.5	0.5	10/31/94
Ethylbenzene	ug/L	0.5	ND	10/31/94
Xylenes, Total	ug/L	0.5	ND	10/31/94



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 3

November 04, 1994
PACE Project Number: 441028510

Client Reference: BP Site #11270/10-206-01-003

PACE Sample Number: 70 0433924
Date Collected: 10/26/94
Date Received: 10/28/94
Client Sample ID: S-3

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/31/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/31/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/31/94
Benzene	ug/L	0.5	ND	10/31/94
Toluene	ug/L	0.5	ND	10/31/94
Ethylbenzene	ug/L	0.5	ND	10/31/94
Xylenes, Total	ug/L	0.5	ND	10/31/94

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 4

FOOTNOTES
for pages 1 through 3

November 04, 1994
PACE Project Number: 441028510

Client Reference: BP Site #11270/10-206-01-003

B Analyte is found in the associated blank as well as in the sample.
MDL Method Detection Limit
ND Not detected at or above the MDL.



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 5

QUALITY CONTROL DATA

November 04, 1994
PACE Project Number: 441028510

Client Reference: BP Site #11270/10-206-01-003

EXTRACTABLE FUELS EPA 3510/8015
Batch: 70 35906
Samples: 70 0433908

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/L	0.05	ND B
Extractable Fuels, as Kerosene	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dup1 Recv	RPD
Extractable Fuels, as Diesel	mg/L	0.05	1.00	90%	90%	0%



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QUALITY CONTROL DATA

November 04, 1994
PACE Project Number: 441028510

Client Reference: BP Site #11270/10-206-01-003

PURGEABLE FUELS AND AROMATICS

Batch: 70 35764
Samples: 70 0433908, 70 0433916, 70 0433924

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700408865 Spike	Spike Recv	Spike Dupl Recv	RPD	
Benzene	ug/L	0.5	ND	100	98%	99%	1%
Toluene	ug/L	0.5	ND	100	97%	97%	0%
Ethylbenzene	ug/L	0.5	ND	100	90%	91%	1%
Xylenes, Total	ug/L	0.5	ND	300	92%	93%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	98%	105%	7%
Toluene	ug/L	0.5	100	100%	104%	4%
Ethylbenzene	ug/L	0.5	100	93%	97%	4%
Xylenes, Total	ug/L	0.5	300	96%	101%	5%



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FOOTNOTES
for pages 5 through 6

November 04, 1994
PACE Project Number: 441028510

Client Reference: BP Site #11270/10-206-01-003

B Analyte is found in the associated blank as well as in the sample.
MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference



441028-570

CHAIN OF CUSTODY

No. 052477

Page 1 of 1

CONSULTANT'S NAME <i>Alisto Engineering</i>		ADDRESS <i>1771 Oakland Blvd, Ste 200</i>		CITY <i>Walnut CA</i>	STATE <i>CA</i>	ZIP CODE <i>94586</i>
BP SITE NUMBER <i>11270</i>	CORNER ADDRESS/CITY <i>McCarthy Rd, Alameda, CA</i>		CONSULTANT PROJECT NUMBER <i>10-206-01-005</i>			
CONSULTANT PROJECT MANAGER <i>Bill Howell</i>		PHONE NUMBER <i>(510) 255 1650</i>	FAX NUMBER <i>(510) 255 1823</i>		CONSULTANT CONTRACT NUMBER	
BP CONTACT <i>Scott Houston</i>		BP ADDRESS <i>Redwood WA</i>		PHONE NUMBER		FAX NO.
LAB CONTACT <i>Pace, Inc.</i>		LABORATORY ADDRESS <i>Novato, CA</i>		PHONE NUMBER <i>(415) 883 6100</i>		FAX NO. <i>(415) 883 2673</i>
SAMPLED BY (Please Print Name) <i>David Cosack</i>		SAMPLED BY (Signature) <i>David Cosack</i>		SHIPMENT DATE		SHIPMENT METHOD <i>Lourier</i>

TAT: 24 Hours 48 Hours 1 Week Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	HCL	-											COMMENTS						
	COLLECTION TIME		NO.	TYPE (VOL.)	LAB SAMPLE #	TPH Gas Bex	TPH Dist																	
S-1 1320	10/26/94	H ₂ O	4	12 3VCA	43390.8	X	X																	
S-2 -	↓	↓	3	VDA	43391.6	↓																		
S-3 -	↓	↓	2	↓	43392.4	↓																		

10/1 B/1

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<i>David Cosack Alisto</i>	<i>10/28/94</i>	<i>1:47</i>	<i>Brenda DAD</i>	<i>10/28/94</i>	<i>2:47</i>	<i>Temp Recd AT 2.0°</i>
<i>Brenda DAD</i>	<i>10/28/94</i>	<i>5:00</i>	<i>WAM/PAE</i>	<i>10/28/94</i>	<i>1700</i>	