

QUARTERLY WELL SAMPLING AND GROUNDWATER MONITORING  
ALAMEDA COUNTY, ALCOPARK  
OAKLAND, CALIFORNIA

STC 103909

Submitted to :

General Services Agency  
County of Alameda  
1401 Lakeside Drive  
Oakland, California, 94612

Prepared by:

RAM Environmental  
7800 Capwell Drive  
Oakland, California 94621

Contract No. 141-3-0549-76

August 19, 1997

Project No. AC 141-3-0549-76

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ALAMEDA COUNTY, ALCOPARK  
OAKLAND, CALIFORNIA

Submitted to

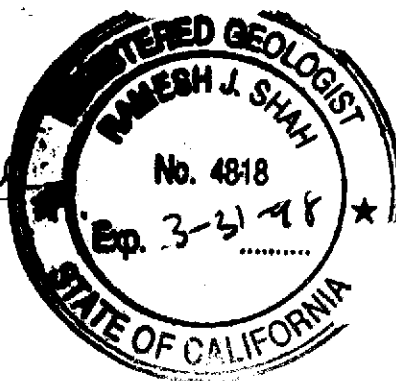
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*Ramesh J. Shah*  
Ramesh J. Shah, R.G. (#4818)  
Sr. Hydrogeologist



August 19, 1997

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## ABBREVIATIONS AND ACRONYMS

ACDEH	Alameda County Department of Environmental Health
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
bgs	Below Ground Surface (level)
CRWQCB	California Regional Water Quality Control Board (San Francisco Bay Region)
DOHS	(California) Department of Health Services (now, Department of Toxic Substances Control)
Elev.	Elevation
EPA	(United States, Federal) Environmental Protection Agency
ft	Foot or feet
gal	Gallon(s)
GSA	General Services Agency
ID	Inside Diameter
in.	Inch(es)
MAI	McCambell Analytical Inc.
MCL	Maximum Contaminant Level
mg/L	Milligram Per Liter (approximately parts per million, ppm)
MPE	Measuring Point Elevation
MTBE	Methyl Tertiary Butyl Ether
MW	Monitoring Well
NA	Not analyzed
ND	Not detected
OVM	Organic Vapor Meter
ppb	Parts per billion
ppm	Parts per million
PVC	Polyvinyl Chloride
Ref.	Reference(s)
QA/QC	Quality Assurance/Quality Control
TPH	Total Petroleum Hydrocarbon
µg/L	Microgram Per Liter (Approximately, parts per billion, ppb)

## 1.0 SUMMARY

Quarterly water level monitoring and groundwater sampling were performed on July 16, 1997 at three monitoring wells\* (MW-1, MW-4, and MW-5) at Alcopark Fueling Station, 165 13<sup>th</sup> Street, Oakland, California. No free product was noted in any of the wells. The groundwater depth ranged from 18.64 ft to 19.17 ft below top of casing. Based on the data, groundwater flows in an easterly direction with a gradient of 0.004 ft/ft (approximately 20 feet per mile).

Well MW-1 had a sewer odor and had high concentrations of TPH (total petroleum hydrocarbon) gasoline and BTEX (benzene, toluene, ethylbenzene, and xylenes). Methyl tertiary butyl ether (MTBE) in MW-1 was non detect based on a detection limit of 150 µg/L. Well MW-4 showed non-detect levels of BTEX and MTBE, but TPH-gasoline was detected at 50 µg/L. Well MW-5 had non-detect BTEX and TPH-gasoline, but a MTBE concentration of 22 µg/L.

## 2.0 INTRODUCTION

The County of Alameda operates a Fueling Station at 165 13<sup>th</sup> Street at the southeast corner of the intersection of Jackson Street and 13<sup>th</sup> Street in Oakland, California (Figure 1). Three groundwater monitoring wells were installed at the site in March 1989 to investigate soil and groundwater conditions subsequent to the repair of a line leak at one of the fuel dispenser (Figure 2). Initial sampling and analysis results indicated the presence of BTEX in the groundwater. Subsequent sampling results indicated that petroleum hydrocarbons were also present. The data suggested that tanks located upgradient of the site may be the source of the contamination. Accordingly, per a December 23, 1993 agreement between GSA (General Services Agency) and the Alameda County Department of Environmental Health (ACDEH), groundwater sampling was halted pending removal and investigation of the upgradient tanks.

On May 20, 1997, ACDEH sent GSA a letter indicating that the upgradient tanks had been removed and the site had been investigated. Based on its findings, ACDEH closed the upgradient site and requested that GSA resume groundwater monitoring at Alcopark. On June 25, 1997 RAM Environmental was Contracted to perform groundwater monitoring and sample collection and submit quarterly reports.

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\* MW-2 and MW-3 are a soil boring and a vadose zone monitoring well, respectively.

The first quarterly well sampling and groundwater monitoring under this contract was performed on July 16, 1997. The results are presented in this report as groundwater elevation data (with respect to local datum), groundwater flow map and gradient, and groundwater sample analysis results. Figures 1 and 2 show the site location and the locations of monitoring wells, respectively.

### 3.0 WATER LEVEL MEASUREMENT AND RESULTS

Depths to groundwater were measured in all three monitoring wells on July 16, 1997. Water levels were measured in an expeditious manner prior to well purging. Measurements were made to the nearest 0.01 ft from a surveyed point on the top of the well casing. A Solinst electric water indicator (manufactured by Solinst Canada Ltd., Glen Williams, Ontario, Canada) was used to measure depths of water.

No free product was observed in any of the wells.

Using the measuring point elevations for the wells, the groundwater depth values were converted to water table elevations with reference to the local datum. Table 1 presents the date and time of water level measurements, the measuring point elevation, the measured depth to groundwater, and the calculated water table elevations with reference to local datum for each of the three wells.

TABLE 1  
JULY 16, 1997 GROUNDWATER LEVEL DATA

Field Investigators: R. Shah and J Mrakovich

Well Number	Date	Time	Measuring Point Elevation (ft, Local Datum Elevation*)	Depth to Water (ft)	Elevation of Water Table (ft)
MW-1	7/16/97	9:18	33.00	18.64	14.36
MW-4	7/16/97	9:19	33.63	19.17	14.46
MW-5	7/16/97	9:21	33.01	18.68	14.33

\* Datum elevation: MW-1 Reference Point assigned elevation of 33.00 ft

Figure 3 shows the groundwater table contour and estimated flow direction, based on the July 16, 1997 measured levels. The groundwater depth ranged from 18.64 feet to 19.17 feet from top of casing. Water elevation to local datum was calculated by subtracting water depth from reference point elevation. Based

on the elevation data, groundwater flows in an easterly direction with a gradient of 0.004 ft/ft (approximately 40 feet per mile).

#### 4.0 GROUNDWATER SAMPLING AND FIELD OBSERVATIONS

This section discusses the sample collection procedure, water quality parameters measured in the field, and Chain of Custody documentation used.

Water samples from monitoring well MW-1 had a strong sewer odor and were black in color. All monitoring wells were purged by hand bailing.

Temperature, conductivity, and pH of the well water were measured in the field using a Digital Conductance, Temperature & pH Tester (manufactured by Beta Technology, Inc., Santa Cruz, California). These water quality parameters were measured several times, once after each well volume purging. Water quality and field sampling data sheets are presented in Appendix A.

Samples for laboratory analysis were obtained after purging three to four well casing volumes of water. In all cases well recovery was fairly fast. Groundwater samples were collected after the wells were recovered, using a 2-in. diameter, new disposable Voss bailers equipped with removable bottom spout. Purged water was stored in two 55-gallon resealable drums. The first drum (one half full) contained purged water from only well MW-1 which had strong odor and was apparently contaminated. The second drum contained purged water from wells MW-4 and MW-5. Both drums are dated and labeled for disposal by the County of Alameda, General Services Agency based on the analytical results.

Water samples for volatile organic compounds were collected in three 40-ml (milliliter) clear glass vials, capped with zero head space. All sample vials were inverted and tapped to verify that no air bubbles were present.

All samples were labeled and placed in an ice chest with blue-ice. All samples were delivered under proper chain-of-custody to Alameda County contract laboratory at McCambell Analytical, Inc.(MAI) in Pacheco, California. MAI Laboratory is a State of California-certified laboratory for chemical analyses. All samples were analyzed for the TPH-gasoline, MTBE, and BTEX by EPA Method 8020.

## 5.0 ANALYTICAL RESULTS

Table 2 presents a summary of the laboratory analytical results for the July 1997 samples. The Certificate of Analysis, QA/QC data, and Chain-of-Custody are presented in Appendix B.

Based on the analytical results presented in Table 2, the following observations are of significance:

- Well MW-1 had a sewer odor and contained TPH-gasoline and BTEX. MTBE was non-detect based on a detection limit of 150 µg/L. Benzene, ethylbenzene, and xylenes are above drinking water standards promulgated by Federal EPA as Primary Drinking Water Standards (Maximum Contaminant Level, MCL). Toluene is above State Action Level. MCL and AL values are presented in Table 2.
- Well MW-4 had non-detect levels of BTEX, TPH-gasoline, and MTBE.
- Well MW-5 had non-detect levels of BTEX and TPH-gasoline, but had a MTBE concentration of 22 µg/L.

Table 3 compares the analytical results for the July 1997 samples with those obtained during 1989-1992. The data show generally higher levels of contaminants in well MW-1 at the time of sampling in July 1997 than previously measured. There does not appear to be a significant change in contaminant levels for other two wells.



TABLE 2  
GROUNDWATER ANALYTICAL RESULTS  
COUNTY OF ALAMEDA, ALCOPARK FUELING STATION  
OAKLAND, CALIFORNIA  
JULY 1997

Method EPA 8020, Unit  $\mu\text{g/L}$

Well Number With Sample Date	TPH (g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
Reporting Limit	50	5.0	0.5	0.5	0.5	0.5
MW-1-797*	19,000	ND<150	1,400	2,800	500	2600
MW-4-797	50	ND	ND	ND	ND	ND
MW-5-797	ND	22	ND	ND	ND	ND
AL or MCL			1 MCL	100 AL	680 MCL	1,750 MCL

Footnotes

- \* Sample diluted due to high concentrations
- AL= California State Action Level
- MCL = (Federal) Maximum Contaminant Levels
- ND = Not detected at reporting limit
- TPH = Total Petroleum Hydrocarbon
- $\mu\text{g/L}$  = Microgram per liter (approximately equal to parts per billion, ppb)

TABLE 3  
GROUNDWATER TREND  
COUNTY OF ALAMEDA, ALCOPARK FUELING STATION  
OAKLAND, CALIFORNIA  
MARCH 1989 TO JUNE 1992 AND JULY 1997

Units:  $\mu\text{g/L}$

Well Number	Date (Month/Year)	Ground Water Elevation* (Ft.)	TPH(g)	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	3/89	12.2	ND	NA	21	3.9	0.4	4.5
	7/90	12.3	1,400	NA	200	45	ND	53
	10/90	12.1	1,200	NA	ND	7.3	2.2	46
	1/91	11.9	270	NA	23	1.5	ND	3.1
	4/91	11.8	230	NA	ND	ND	ND	ND
	8/91	11.8	8,300	NA	370	64	ND	120
	11/91	11.7	810	NA	9.3	ND	7.8	32
	6/92	12.85	2,600	NA	810	16	21	42
	7/97	14.36	19,000	ND<150	1,400	2,800	500	2,600
MW-4	3/89	12.4	ND	NA	13	1.4	1.0	ND
	7/90	12.5	NA	NA	0.8	ND	ND	ND
	10/90	12.2	NA	NA	120	1.2	1.1	0.9
	1/91	12.0	NA	NA	230	2.8	1.2	2.0
	4/91	13.0	170	NA	12	ND	ND	2.3
	8/91	11.8	ND	NA	87	1.3	0.8	0.8
	11/91	11.8	1,400	NA	ND	1.7	8.6	3.6
	6/92	12.93	560	NA	150	1.8	1.8	1.1
	7/97	14.46	50	ND	ND	ND	ND	ND
MW-5	3/89	12.2	ND	NA	ND	ND	ND	ND
	7/90	12.4	670	NA	0.8	ND	ND	ND
	10/90	12.1	120	NA	13	ND	ND	ND
	1/91	11.9	120	NA	3.2	ND	ND	ND
	4/91	12.3	ND	NA	ND	ND	ND	ND
	8/91	11.5	ND	NA	20	ND	0.5	ND
	11/91	11.7	190	NA	2.7	ND	0.8	2.5
	6/92	12.85	150	NA	37	ND	ND	ND
	7/97	14.33	ND	22	ND	ND	ND	ND

\* Ground Water Elevation: MW-1 Reference Point assigned elevation of 33.00 feet

MCL = (Federal) Maximum Contaminant Levels

NA= Not Analyzed

ND = Not detected at reporting limit

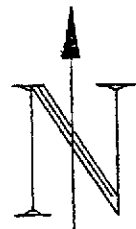
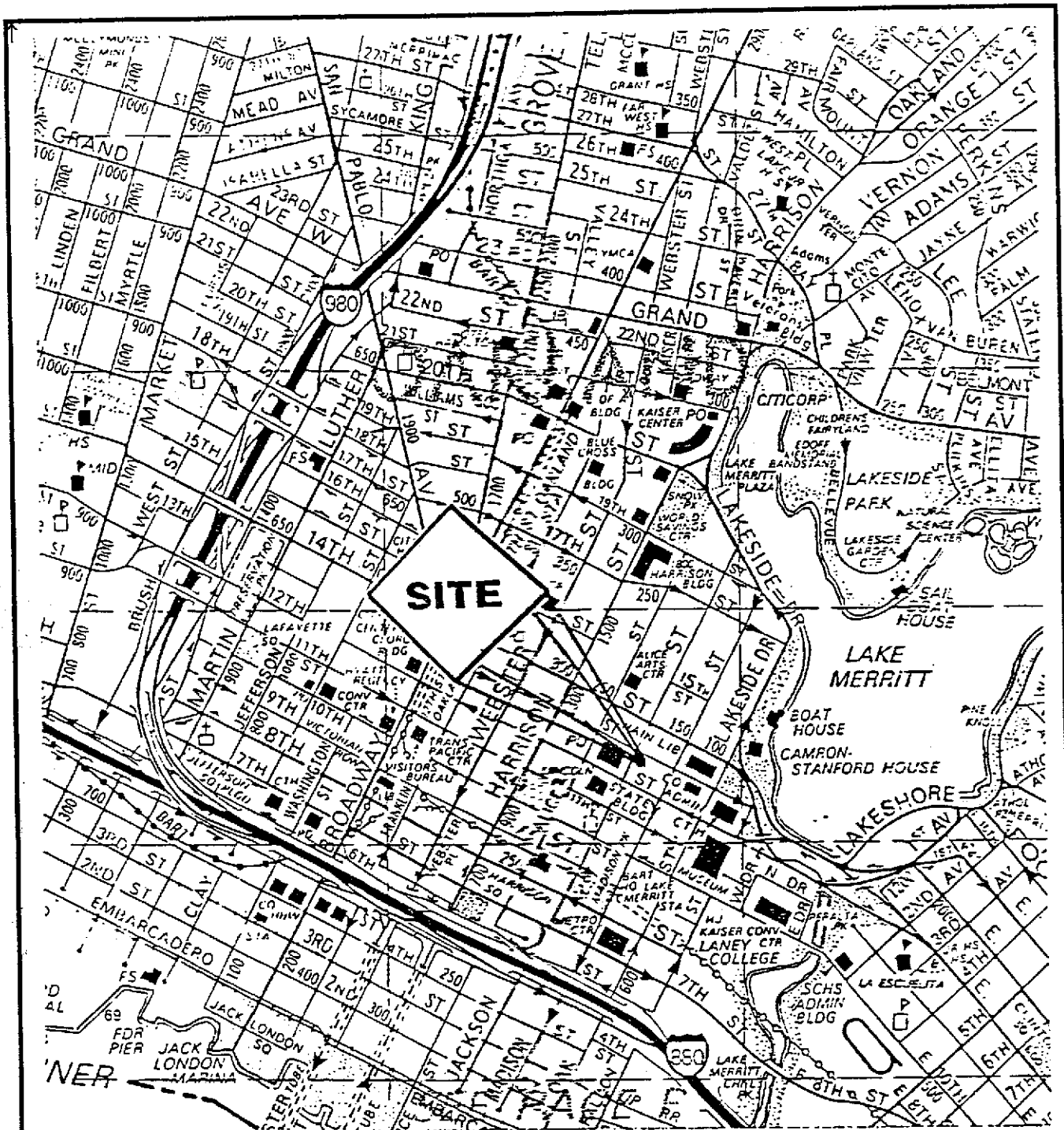
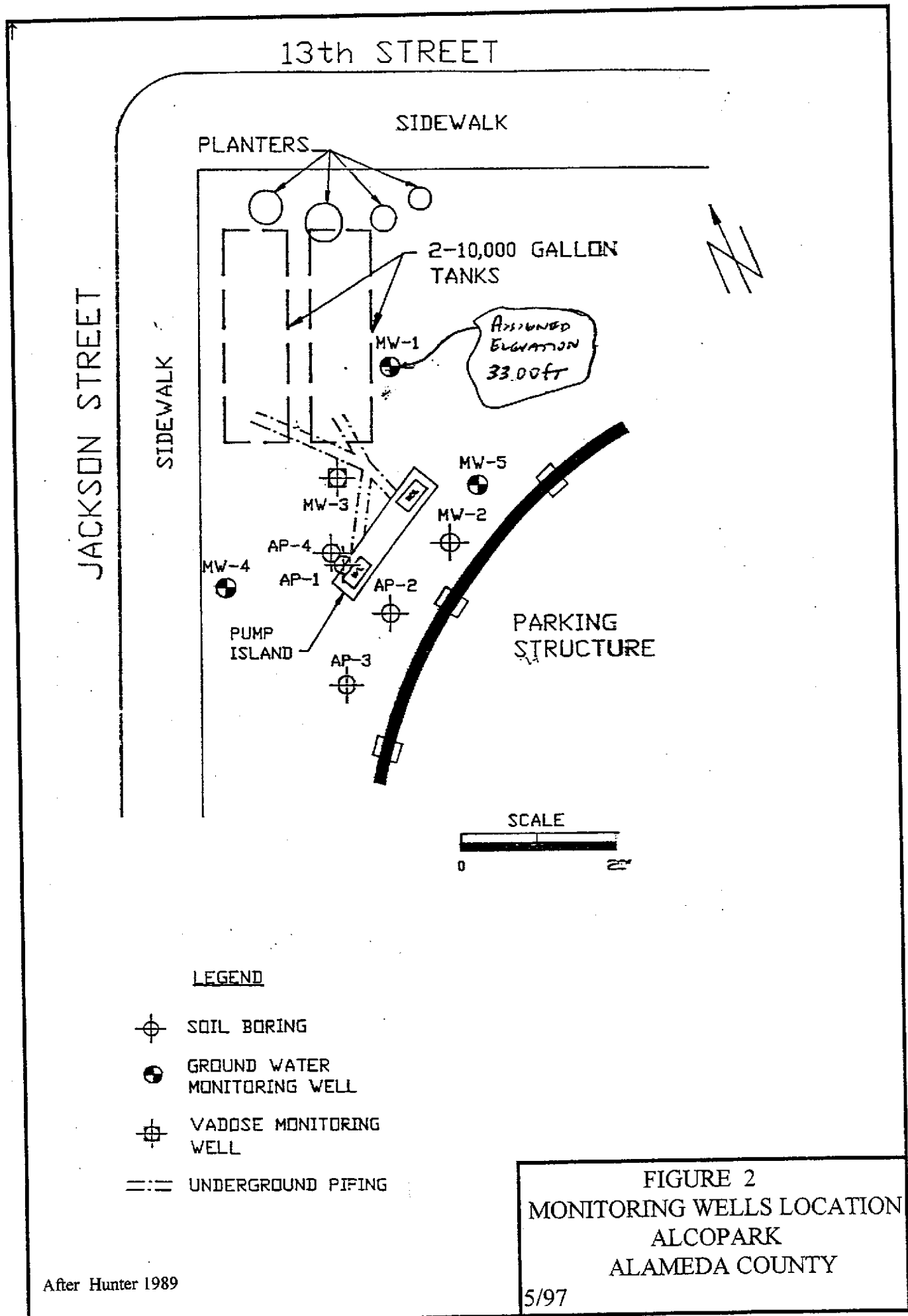


FIGURE 1  
 SITE LOCATION MAP  
 ALCOPARK  
 ALAMEDA COUNTY



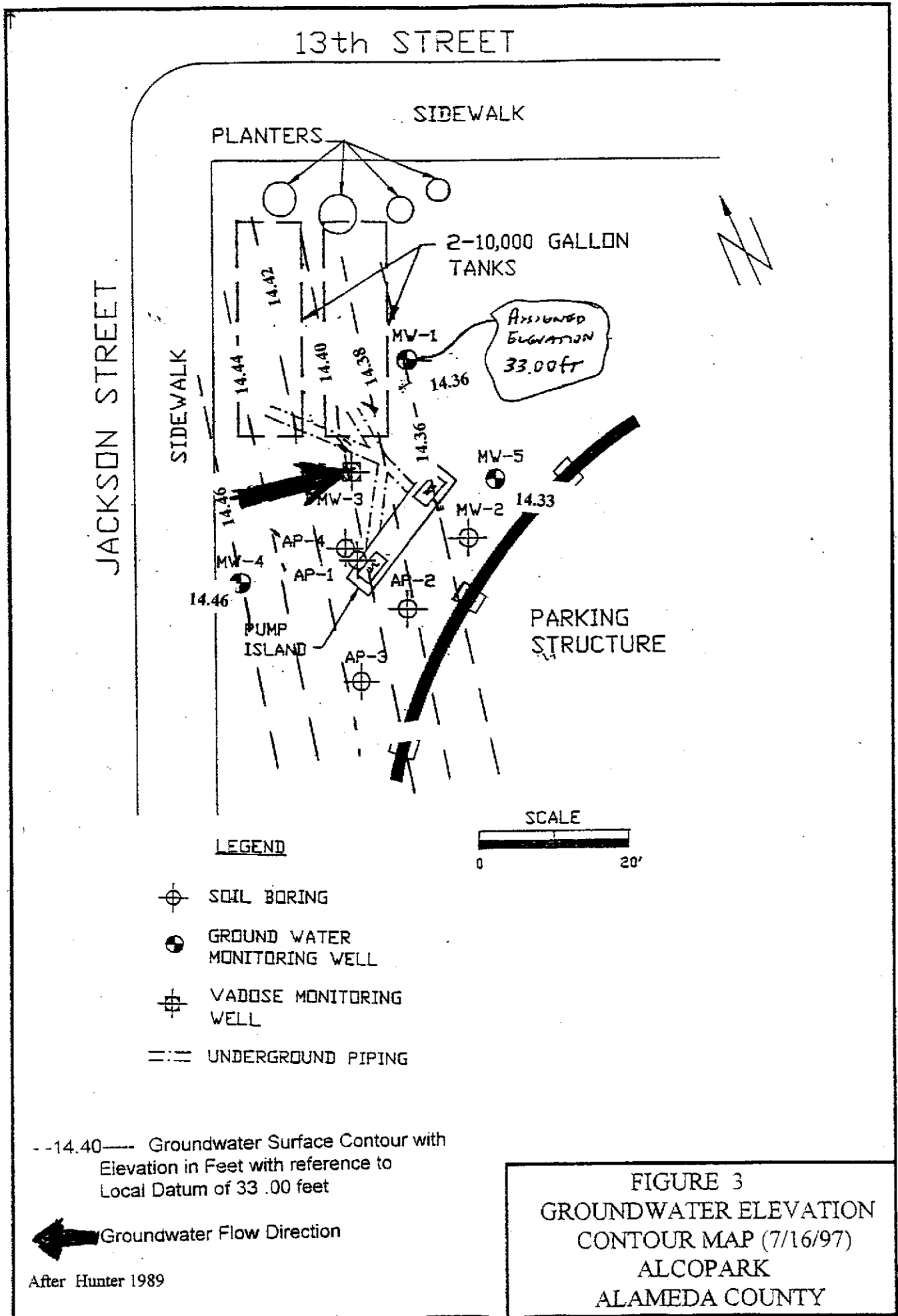


FIGURE 3  
 GROUNDWATER ELEVATION  
 CONTOUR MAP (7/16/97)  
 ALCOPARK  
 ALAMEDA COUNTY

**APPENDIX A**

**GROUNDWATER PURGING DATA**

**RAM Environmental**

**GROUNDWATER PURGING DATA**

Date: 7/16/97

Project No. AC 141-3-0549-76

Project Location: Alcopark, Oakland, California

Well No. MW-1

Measuring Point (MP) Elevation: 20.60 ft(Local Datum)

Depth to Water from MP: 18.64 ft Total Depth : 35 ft

Thickness of Water Column: 16.34 ft

Volume of Water Per Foot of Casing: 0.65 gallon for 4-inch diameter casing

Calculated Volume of Water in Casing: 10.6 gal

Purging Method: Hand Bailing Sample Collected by: Disposable Bailer

Sampler(s): Ramesh Shah / John Mrakovich

Time	Volume Purged Present	Total	Temperature Degree F	Elec Conduct (microhm/cm)	pH (Units)	Remark
10:08	5	5	-	-	-	Sewer odor, black, OVM reading 10 ppm inside of the casing
10:11	5	10	64.5	6150	6.66	
10:19	10	20	64.6	5990	7.11	
10:29	10	30	65.9	6220	7.22	

OVM: Organic Vapor Meter

**RAM Environmental**

**GROUNDWATER PURGING DATA**

Date: 7/16/97

Project No. AC 141-3-0549-76

Project Location: Alcopark, Oakland, California

Well No. MW-4

Measuring Point (MP) Elevation: 21.13 ft (Local Datum)

Depth to Water from MP: 19.17 ft Total Depth : 35 ft

Thickness of Water Column: 15.83 ft

Volume of Water Per Foot of Casing: 0.16 gallon for 2-inch diameter casing

Calculated Volume of Water in Casing: 2.5 gal

Purging Method: Hand Bailing Sample Collected by: Disposable Bailer

Sampler(s): Ramesh Shah / John Mrakovich

Time	Volume Purged Present	Total	Temperature Degree F	Elec Conduct (micro/cm)	pH Units	Remark
9:35	2	2	66.1	1834	8.48	Silty, light brown
9:48	3	5	64.5	8030	7.03	
10:16	3	8	64.6	7900	7.05	



**RAM Environmental**

**GROUNDWATER PURGING DATA**

Date: 7/16/97

Project No. AC 141-3-0549-76

Project Location: Alcopark, Oakland, California

Well No. MW-5

Measuring Point (MP) Elevation: 20.61 ft(Local Datum)

Depth to Water from MP: 18.68 ft Total Depth : 35 ft

Thickness of Water Column: 16.32 ft

Volume of Water Per Foot of Casing: 0.65 gallon for 4-inch diameter casing

Calculated Volume of Water in Casing: 10.6 gal

Purging Method: Hand Bailing Sample Collected by: Disposable Bailer

Sampler(s): Ramesh Shah / John Mrakovich

Time	Volume Purged		Temperature Degree F	Elec. Conduc. (microhm/cm)	pH Units
	Present	Total			
9:40	10	10	65.5	1010	7.58
9:50	10	20	64.1	662	6.92
10:00	10	30	64.7	684	6.84

**APPENDIX B**

**CERTIFICATE OF ANALYSIS,  
QA/QC DATA,  
AND  
CHAIN-OF-CUSTODY**



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553  
Telephone : 510-798-1620 Fax : 510-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

Ram Environmental 7800 Capwell Drive Oakland, CA 94621	Client Project ID: Alco Park, Oakland	Date Sampled: 07/16/97
		Date Received: 07/16/97
	Client Contact: Ramesh Shah	Date Extracted: 07/16/97
	Client P.O:	Date Analyzed: 07/16/97

07/23/97

Dear Ramesh/Rod:

Enclosed are:

- 1). the results of 3 samples from your **Alco Park, Oakland** project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553  
 Telephone : 510-798-1620 Fax : 510-798-1622  
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Ram Environmental 7800 Capwell Drive Oakland, CA 94621	Client Project ID: Alco Park, Oakland	Date Sampled: 07/16/97
		Date Received: 07/16/97
	Client Contact: Ramesh Shah	Date Extracted: 07/16-07/17/97
	Client P.O:	Date Analyzed: 07/16-07/17/97

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
78659	MW-1-7/97	W	19,000,a	ND<150	1400	2800	500	2600	99
78660	MW-4-7/97	W	50,c	ND	ND	ND	ND	ND	101
78661	MW-5-7/97	W	ND	22	ND	ND	ND	ND	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

\* cluttered chromatogram; sample peak coelutes with surrogate peak

\*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/16/97

Matrix: Water

Analyte	Concentration (mg/L) Sample			Amount Spiked	% Recovery		
	#(78563)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	97.8	97.4	100.0	97.8	97.4	0.5
Benzene	0.0	10.0	9.6	10.0	100.0	96.0	4.1
Toluene	0.0	10.5	10.3	10.0	105.0	103.0	1.9
Ethyl Benzene	0.0	10.7	10.6	10.0	107.0	106.0	0.9
Xylenes	0.0	32.2	31.7	30.0	107.3	105.7	1.6
TPH (diesel)	0	144	149	150	96	99	3.4
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/17/97

Matrix: Water

Analyte	Concentration (mg/L) Sample			Amount Spiked	% Recovery		
	#(78670)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	99.4	94.4	100.0	99.4	94.4	5.2
Benzene	0.0	9.8	10.1	10.0	98.0	101.0	3.0
Toluene	0.0	10.5	10.7	10.0	105.0	107.0	1.9
Ethyl Benzene	0.0	10.7	10.8	10.0	107.0	108.0	0.9
Xylenes	0.0	31.8	32.3	30.0	106.0	107.7	1.6
TPH (diesel)	0	131	131	150	87	87	0.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553  
Telephone: 510-798-1620 Fax: 510-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

Date: 7.17.97

ATTN: Ramesh Shah → Rod Freitag

Message: The level of TPH-9 detected  
in sample MW-4-7/97 was confirmed  
by reanalysis.

FROM: Jim Cluggish

Number of pages faxed including this one: 1

# McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7

PACHECO, CA 94553

(510) 798-1820

FAX (510) 798-1822

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH  24 HOUR  48 HOUR  5 DAY

REPORT TO: **RAMESH SHAH** BILL TO: **GSA, Alameda Co**

COMPANY: **RAM ENVIRONMENTAL**

**7800. CAPWELL DRIVE**

**OAKLAND, CA 94621**

TELE: **(510) 553-2143** FAX #: **(510) 553-2145**

PROJECT NUMBER: PROJECT NAME: **ALCOPARK OAKLAND**

PROJECT LOCATION: **165-13th ST, OAKLAND** SAMPLER SIGNATURE:

## ANALYSIS REQUEST

OTHER

78659

78660

78661

COMMENTS

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED						
		DATE	TIME			VATER	SOIL	AIR	SLUDGE	OTHER	HCL	NO <sub>2</sub>	OTHER				
+ MW-1-797		16/7/97	10:38	3	40mm	X					X	X					
+ MW-4-797		16/7/97	10:53	3	40mm	X					X	X					
+ MW-5-797		16/7/97	10:45	3	40mm	X					X	X					

TEX & TPH as Gasoline (8015)	
THP as Diesel (8015)	
Total Petroleum Oil & Grease (5920 ERF/5920 BRF)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601/8010	
EPA 602/8020	
EPA 608/8080	
EPA 608/8080 - PCBs Only	
EPA 624/8240/8260	
EPA 625/8270	
CAH - 17 Metals	
EPA - Priority Pollutant Metals	
LEAD (7240/7421/239.2/5010)	
ORGANIC LEAD	
RC1	

MTBE

ON I Co

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
<i>Ramesh Shah</i>	7/16/97	13:47	<i>Jim Peng 676</i> 7/16/97
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
<i>Jim Peng 676</i>	7/16/97	3:38	<i>Jim Peng 676</i>
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:
<i>Ramesh Shah</i>	7/16/97	1:47	<i>Quia Nica</i> M&E

REMARKS:

ICE/T  PRESERVATIVE   
 GOOD CONDITION  APPROPRIATE CONTAINERS   
 LEAD SPACE ABSENT  VOAS  O&G  METALS  OTHER