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ALCO
HAZMAT

94 APR 29 PM 1:40

April 26, 1994

Mr. Steve Chrissanthos
Alameda Cellars
1702 Lincoln Avenue
Alameda, CA 94501

RE: Results of Quarterly Groundwater Sampling at
2425 Encinal, Alameda, California

Dear Mr. Chrissanthos:

Thank you for providing ACC with the opportunity to present this report.
The enclosed report describes the materials and procedures used during the quarterly groundwater investigation performed at 2425 Encinal, Alameda, California. This work was performed to evaluate the vertical extent of groundwater contamination.

Analysis of the groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-4 indicated elevated concentrations of hydrocarbons. Analytical results of groundwater samples from monitoring wells MW-5 and MW-6 indicated below detectable levels of constituents indicating a lateral extent of contamination.

If you have any comments regarding this report, please call me.

Sincerely,

Misty C. Kaltreider
Geologist

cc: Mr. Richard Hiett - Regional Water Quality Control Board
Ms. Juliet Shin - Alameda County Health Care Services - Division of Hazardous Materials

1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 • FAX: (510) 865-5731

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QUARTERLY GROUNDWATER INVESTIGATION

2425 ENCINAL
ALAMEDA, CALIFORNIA

April 1994

Prepared for:
Mr. Steve Chrissanthos
Alameda Cellars
1702 Lincoln Avenue
Alameda, CA 94501

Prepared by: _____
Misty Kaltreider
Project Geologist

Reviewed by: _____
Christopher M. Palmer, CEG #1262
Certified Engineering Geologist

REGISTERED GEOLOGIST
CHRISTOPHER M. PALMER
№ 1262
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

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1.0 INTRODUCTION

This report presents the procedures and findings of the quarterly groundwater investigation conducted by ACC Environmental Consultants, Inc., ("ACC") on behalf of Mr. Steve Chrissanthos and Alameda Cellars, site owner at 2425 Encinal, Alameda, California. The project objective, as described in the Work Plan prepared on November 5, 1993, was to evaluate the extent of groundwater impact from the previous underground storage of gasoline.

2.0 BACKGROUND

The site is presently occupied by Alameda Cellars, a commercial liquor store. The property is owned by Mr. Steve Chrissanthos. In March, 1990, two 10,000-gallon gasoline tanks were removed from the above referenced site. Analysis of the soil samples collected from beneath the two gasoline tanks indicated up to 710 parts per million (ppm) of Total Petroleum Hydrocarbons (TPH) as gasoline. Soil samples collected from beneath the diesel tank indicated less than detectable levels of TPH as diesel.

In December 1992, five borings were drilled on-site. Three of the borings were converted into monitoring wells MW-1, MW-2a, and MW-3. Analytical results of the soil collected during drilling and soil sampling indicated a maximum soil concentration of Total Petroleum Hydrocarbons (TPH) as gasoline as 1,365 ppm. Benzene concentration was 18.9 ppm in the same sample.

Initial groundwater samples collected in January, 1993, from the monitoring wells indicated a maximum TPH-gasoline concentration of 5,680 ppb (MW-2a) and a maximum benzene concentration of 1,560 ppb (MW-1).

Additional soil investigation was conducted in May, 1993 to evaluate the extent of contamination in the soil and groundwater. Findings of the additional investigation indicated the lateral extent of hydrocarbon impacted soil did not appear to extend beyond the property boundaries along the northern, western, and eastern sides. However, along the southern side, the impacted soil appears to extend into Park and Encinal Avenues. Field observations made during the additional investigation and soil sample analysis indicated the soil hydrocarbon plume is primarily around the former tank excavation and the former dispenser island. The vertical limit of hydrocarbons in the soil is estimated to occur at the present groundwater table.

Analysis of "grab" groundwater samples collected from borings drilled during the additional investigation indicate the residual hydrocarbons from the former tank excavation and dispenser island is migrating off-site via the groundwater.

Per request of Alameda County Health Care Services - Hazardous Materials Division, this preliminary Site Assessment was conducted to further evaluate the groundwater contamination from the gasoline release on-site.

In December 1993, three additional monitoring wells (MW-4, MW-5, and MW-6) were installed to evaluate the extent of groundwater contaminate plume. Laboratory analysis of the soil collected from each boring indicated below detectable levels of constituents which verifies the lateral extent of soil contamination.

Laboratory analysis of the groundwater samples collected from monitoring well MW-5 and MW-6 indicated below detectable levels of constituents evaluated. The groundwater results indicated a lateral extent of groundwater contamination. Laboratory analysis of groundwater collected from monitoring well MW-4 indicated low detectable levels of constituents. Constituents reported from monitoring well MW-4 are low when compared with reported levels in monitoring wells MW-1, MW-2a, and MW-3. The location of the southern edge of the groundwater contaminant plume is just off-site to the south. This "side" gradient movement is attributed to the relatively flat gradient and possible recharge into the excavated area.

3.0 FIELD PROCEDURES

3.1 Groundwater Sampling

Groundwater samples were collected on March 18, 1994 from monitoring wells MW-1, MW-2a, MW-3, MW-4 and MW-5. Monitoring well MW-6 was not accesible during that sampling period. Groundwater sample was collected from monitoring well MW-6 on April 8, 1994. Prior to groundwater sampling the depth to the surface of the water table was measured from the top of the PVC casing using a Solinst Water Level Meter. Information regarding well elevations and groundwater level measurements is summarized in Table 1.

TABLE 1 - Groundwater Depth Information

Date Sampled	Depth to Groundwater (Ft.)	Groundwater Elevation (Ft.)
Well No. MW-1	Elevation of Top of Casing-27.61 MSL	
01/09/93	6.75	20.86
02/09/93	6.41	21.20
03/10/93	6.34	21.27
04/12/93	6.52	21.09
05/17/93	7.38	20.23
06/28/93	8.42	19.19
07/13/93	8.68	18.93
08/10/93	8.25	19.36
09/10/93	8.73	18.88
10/12/93	9.04	18.57
12/20/93	7.87	19.74
03/18/94	6.96	20.65
04/08/94	7.69	19.92
Well No. MW-2a	Elevation of Top of Casing-27.98 MSL	
01/09/93	7.06	20.92
02/09/93	6.63	21.35
03/10/93	6.57	21.41
04/12/93	6.77	21.21
05/17/93	7.61	20.37
06/28/93	8.68	19.30
07/13/93	8.94	19.04
08/10/93	8.66	19.32
09/10/93	8.95	19.03
10/12/93	9.36	18.62

TABLE 1 - Groundwater Depth Information, cont.

Date Sampled	Depth to Groundwater (Ft.)	Groundwater Elevation (Ft.)
Well No. MW-2a	Elevation of Top of Casing-27.98 MSL	
12/20/93	8.24	19.74
03/18/94	7.80	20.18
04/08/94	7.67	20.31
Well No. MW-3	Elevation of Top of Casing-27.89 MSL	
01/09/93	6.68	21.21
02/09/93	6.25	21.64
03/10/93	6.18	21.71
04/12/93	6.41	21.48
05/17/93	7.37	20.52
06/28/93	8.47	19.42
07/13/93	8.74	19.15
08/10/93	8.45	19.44
09/10/93	8.52	19.37
10/12/93	9.20	18.69
12/20/93	7.95	19.94
03/18/94	6.60	21.29
04/08/94	7.70	20.19
Well No. MW-4	Elevation of Top of Casing-26.97 MSL	
12/20/93	7.25	19.72
03/18/94	6.64	20.33
04/08/94	7.12	19.85
Well No. MW-5	Elevation of Top of Casing-27.34 MSL	
12/20/93	8.01	19.33
03/18/94	7.80	19.54
04/08/94	7.82	19.52
Well No. MW-6	Elevation of Top of Casing-28.03 MSL	
12/20/93	8.00	20.03
03/18/94	----	-----
04/08/94	7.72	20.31

Notes: All measurements in feet
MSL = Mean Sea Level

After water-level measurements were taken, each on-site well was purged by hand using a designated disposable Teflon bailer for each well. Groundwater Ph, temperature and electrical conductivity were monitored during well purging. Each well was considered to be purged when these parameters stabilized. Three to four well volumes were removed to purge each well. Worksheets of conditions monitored during purging are attached in Appendix C.

After the groundwater level had recovered to a minimum of approximately 80 percent of its static level, water samples were obtained using designated disposable Teflon bailers. Two 40 ml VOA vials, without headspace, were filled from the water collected from each monitoring well.

The samples were preserved on ice and submitted to Chromalab Inc. under chain of custody protocol. Laboratory results with chain of custody forms are attached in Appendix D.

4.0 FINDINGS

4.1 Analytical Results - Groundwater

One groundwater sample each from monitoring wells MW-1, MW-2a, MW-3, MW-4, MW-5, and MW-6 was collected and submitted to Chromalab for analysis for TPH as gasoline by EPA test method 5030 and BTEX by EPA test method 602. Analysis results from the groundwater samples are summarized in Table 2 and Figure 2. Copies of the analytical results are attached in Appendix B.

TABLE 2 - Analytical Results - Groundwater

Well Number	Date Collected	TPH-gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
MW-1	01/09/93	5,360	1,560.0	1,026.6	641.0	2,706.2
	04/12/93	12,000	750.0	100.0	500.0	1,400.0
	07/13/93	720	119.6	32.7	70.8	262.0
	10/12/93	8,400	420.0	39.0	280.0	880.0
	12/20/93	5,200	270.0	58.0	170.0	590.0
	03/18/94	18,000	570.0	180.0	270.0	1,500.0
	04/08/94	NT	NT	NT	NT	NT
MW-2a	01/09/93	5,680	801.6	598.6	840.2	2,196.1
	04/12/93	12,000	460.0	110.0	240.0	1,600.0
	07/13/93	550	145.2	47.5	126.8	127.4
	10/12/93	2,000	280.0	17.0	100.0	120.0
	12/20/93	3,300	450.0	40.0	200.0	350.0
	03/18/94	7,900	370.0	53.0	190.0	530.0
	04/08/94	NT	NT	NT	NT	NT
MW-3	01/09/93	<50	<0.5	<0.5	<0.5	<0.5
	04/12/93	1,500	95.0	30.0	46.0	85.0
	07/13/93	540	18.3	106.2	75.7	128.0
	10/12/93	3,500	290.0	230.0	210.0	460.0
	12/20/93	690	31.0	10.0	31.0	25.0
	03/18/94	450	9.6	11.0	5.5	23.0
	04/08/94	NT	NT	NT	NT	NT
MW-4	12/20/93	580	2.3	<0.5	1.4	1.1
	03/18/94	2,100	11.0	1.5	2.3	6.0
	04/08/04	NT	NT	NT	NT	NT

TABLE 2 - Analytical Results - Groundwater

Well Number	Date Collected	TPH-gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
MW-5	12/20/93	<50	<0.5	<0.5	<0.5	<0.5
	03/18/94	<50	<0.5	<0.5	<0.5	<0.5
	04/08/94	NT	NT	NT	NT	NT
MW-6	12/20/93	<50	<0.5	<0.5	<0.5	<0.5
	03/18/94	NT	NT	NT	NT	NT
	04/08/94	<50	<0.5	<0.5	<0.5	<0.5

Notes: ug/L = parts per billion (ppb)
NT = Not Tested

4.2 Groundwater Gradient

Prior to calculating the groundwater gradient, elevations for the on-site monitoring wells were surveyed by Ron Archer Civil Engineer, Inc. to an accuracy of one-hundredth of a foot. The well elevation was surveyed at the top of the PVC well casing. The elevations of the monitoring wells were established relative to a nearby benchmark located in the curb on the northwest corner of the intersection of Park and Encinal Avenues in Alameda, California.

The groundwater gradient was calculated using the on-site monitoring wells. The location of the wells is shown on Figure 1 - Site Plan. Groundwater elevations were collected from monitoring wells MW-1, MW-2a, MW-3, MW-4, and MW-5 on March 18, 1994 (illustrated in Figure 2). Groundwater elevations were collected from all on-site wells on April 8, 1994 (illustrated on Figure 3.) The gradient was evaluated by triangulation using the elevation of the potentiometric surface measured with respect to Mean Sea Level datum.

The historical groundwater gradient and the direction of groundwater flow on-site is summarized in Table 3.

TABLE 3 - Historic Groundwater Gradient

Date Monitored	Gradient (foot/foot)	Direction
01/09/93	0.009	west
02/09/93	0.013	southwest
03/10/93	0.012	west/southwest
04/12/93	0.012	west/southwest
05/17/93	0.0078	south/southwest
06/28/93	0.0076	southwest
07/13/93	0.0058	southwest
08/10/93	0.004	west
09/10/93	0.015	southwest
10/12/93	0.004	southwest
12/20/93	0.0083	west
03/18/94	0.018	west
04/08/94	0.011	west

5.0 CONCLUSION

The data and observations discussed herein indicate that groundwater has been impacted due to an unauthorized hydrocarbon release. The analytical parameters used for soil and groundwater sampling performed were in accordance with the guidance document "Tri-Regional Water Quality Control Boards Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated August 10, 1990, for gasoline tanks.

First quarter sampling and analysis indicated elevated levels of TPH as gasoline with BTEX in the groundwater from monitoring well MW-1 and MW-2a. Groundwater from monitoring well MW-3 has below detectable levels of constituents. Second quarterly sampling and analysis of the groundwater in April indicated an increase in levels of Total Petroleum Hydrocarbons as gasoline in all wells, however, the benzene, toluene, ethylbenzene and xylenes levels have declined in water samples from monitoring wells MW-1 and MW-2a. Constituents detected during July 1993 appear decreasing due to the fluctuating groundwater elevation. During October 1993 sampling, constituents in monitoring wells MW-1 and MW-3 have increased while only TPH as gasoline and benzene have increased in monitoring well MW-2a. Benzene increase in MW-2a is probably due to residual drainage and the well's close proximity to the former tank location and/or contaminate desorbation from sediment.

Three additional monitoring wells (MW-4, MW-5, and MW-6) were installed to evaluate the extent of groundwater contaminate plume. Laboratory analysis of the soil collected from each boring indicated below detectable levels of constituents which verifies the lateral extent of soil contamination.

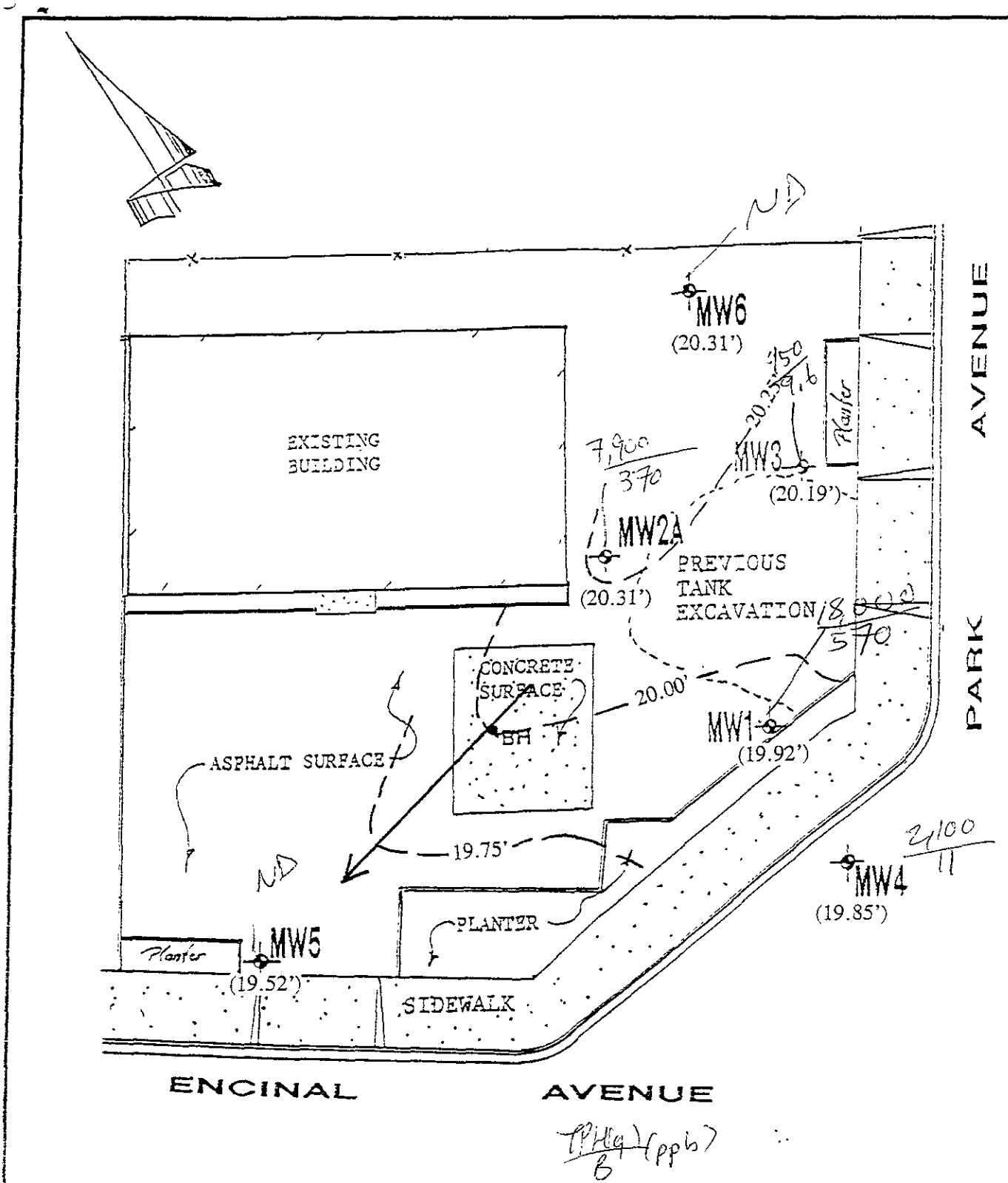
Laboratory analysis of the groundwater samples collected from monitoring well MW-5 and MW-6 in January and March - April, 1994 indicated below detectable levels of constituents evaluated. The groundwater results indicated a lateral extent of groundwater contamination. Laboratory analysis of groundwater collected from monitoring well MW-4 indicated low detectable levels of constituents.

The location of the southern edge of the groundwater contaminant plume is just off-site to the south. This "side" gradient movement is attributed to the relatively flat gradient and possible recharge into the excavated area causing lateral movement. However, the data to date indicate that contaminant movement is minimal.

6.0 RECOMMENDATIONS

Pursuant to the Tri-Regional Board guidelines, groundwater sampling and monitoring of the on-site wells should continue on a quarterly basis.

Pursuit to the CCR Title 23, Chapter 16, Articles 5, 7, and 11 of the Underground Storage Tank regulations a Corrective Action Plan is being drafted to determine the method of cleanup. The Corrective Action Plan will identify and evaluate the appropriate corrective actions for the property located at 2425 Encinal Avenue.



Scale: 1" = 20'

All Elevations in Feet Above Mean Sea Level

Figure 3

Project # 6039-5	4/12/94	Drawn By: TRF	Alameda Cellars 2425 Encinal Avenue	Groundwater Gradient 04/08/94

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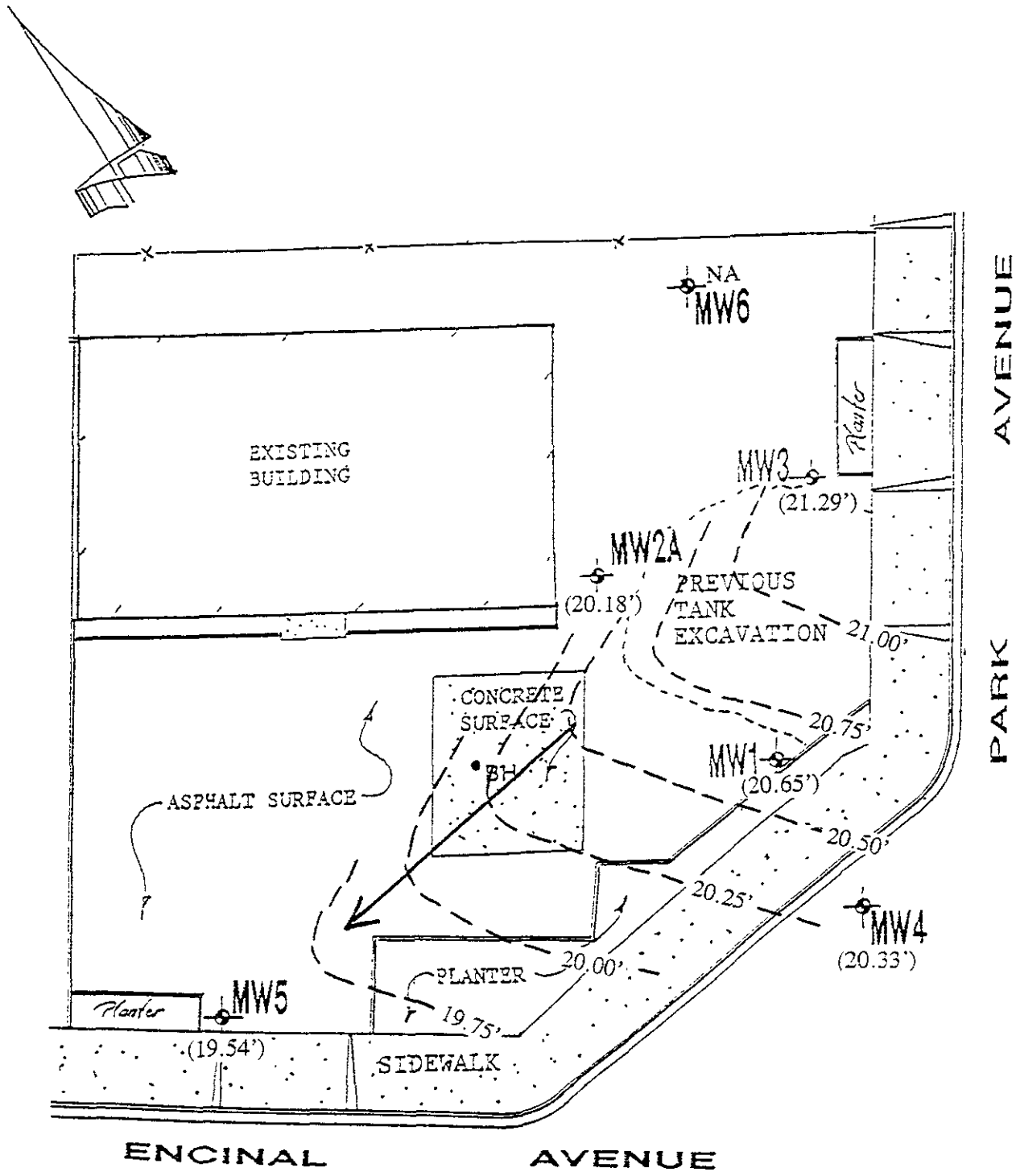

All Elevations in Feet Above Mean Sea Level

Scale: 1" = 20'

Figure 2

Project # 6039-5	4/12/94	Drawn By: TRF	Alameda Cellars 2425 Encinal Avenue	Groundwater Gradient 03/18/94

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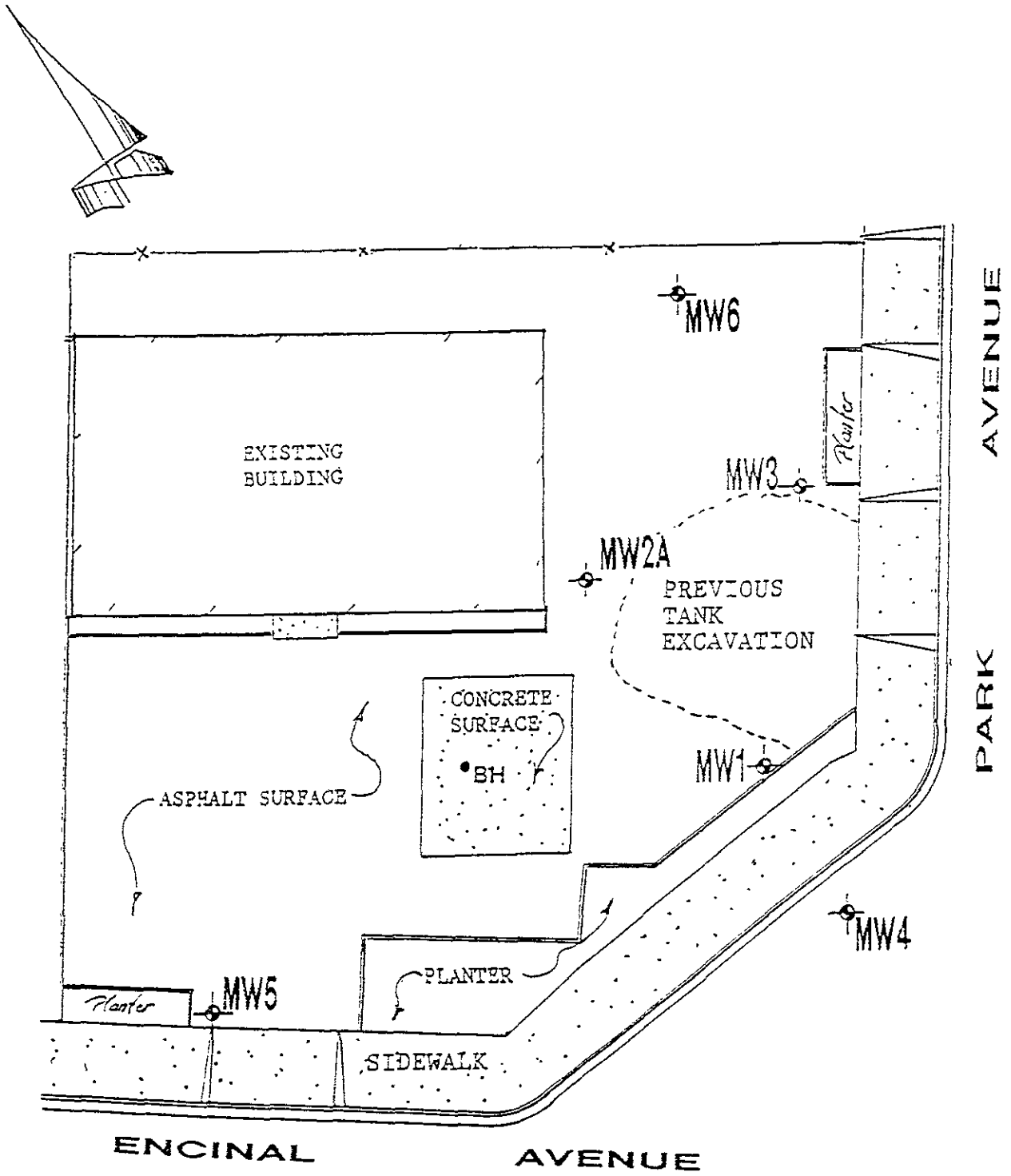

Scale: 1" = 20'

Project # 6039-5	1/12/94	Drawn By: TRF	Alameda Cellars 2425 Encinal Avenue	Site Plan Figure 1

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APPENDIX A

Well Sampling [✓] Well Development [ ] check one

Well Number: MW 6

Job Number: ~~6039~~ 6039-5

Job Name: 2425 ENCINAL

Date: 4.8.94

Sampler: Bart Gilbert

Depth to Water (measured from TOC): 7.72

Inside Diameter of Casing: 2"

Depth of Boring: 18'

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 7.0 g

Depth to Water after well development: 3

Depth to water prior to sampling: 7.81

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? new

Depth to Water (From TOC)

MW1: 7.69'
MW2: 7.67'
MW3: 7.70'
MW4: 7.12
MW5: 7.82

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	7.89	.46	61.2
10	7.52	.44	62.9
15	7.70	.46	62.9
20	7.79	.47	62.7
25	7.80	.42	62.6
30	7.65	.51	62.6
35	7.67	.51	62.7
40	7.65	.51	62.6
45			
50			

Samples Obtained:

TPH (gasoline)	✓
TPH (diesel)	
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW5

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3-18-94

Sampler: Burt Culbert

Depth to Water (measured from TOC): 7.80

Inside Diameter of Casing: 2"

Depth of Boring: 18'

Method of well development/purging: bail

Amount of Water Bailed/Pumped from well: 6.4

Depth to Water after well development: ~~7.40'~~

Depth to water prior to sampling: 7.40'

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5		89	59.8
10		71	696
15		88	685
20		78	698
25		78	698
30		78	698
35			
40			
45			
50			

Samples Obtained:

TPH (gasoline)	✓
TPH (diesel)	
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW1

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3-18-94

Sampler: Bret Gilbert

Depth to Water (measured from TOC): 6.76'

Inside Diameter of Casing: 2"

Depth of Boring: 17.67

Method of well development/purging: bail

Amount of Water Bailed/Pumped from well: 7.2

Depth to Water after well development: _____

Depth to water prior to sampling: 7.32'

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5		85	64.4
10		82	64.5
15		79	64.5
20		80	64.5
25		80	64.1
30		80	64.1
35		80	64.2
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	
TPH (motor oil)	
BTXE	
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW2

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3-18-94

Sampler: Bret Gilbert

Need to call Matt in advance and also do sampling M-W-not F-to Post

Depth to Water (measured from TOC): 7.80'

Inside Diameter of Casing: 2"

Depth of Boring: 14.46

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 4.4

Depth to Water after well development: _____

Depth to water prior to sampling: 7.90

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil	✓	✓
smell	✓	✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5		76	64.2
10		76	64.7
15		75	64.6
20		74	64.5
25		74	64.4
30		74	64.1
35		73	64.1
40		73	~~64.1~~
45			
50			

Samples Obtained:

TPH (gasoline)	✓
TPH (diesel)	
TPH (motor oil)	✓
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW 3

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3.18.94

Sampler: Bart Lubert

Depth to Water (measured from TOC): 6.60

Inside Diameter of Casing: 2"

Depth of Boring: 13.82

Method of well development/purging: bail

Amount of Water Bailed/Pumped from well: 7.2 Gallons

Depth to Water after well development: _____

Depth to water prior to sampling: 7.21

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5		85	64.4
10		84	64.6
15		83	64.6
20		82	64.4
25		82	64.4
30		61	64.1
35		61	64.1
40		61	64.2
45			
50			

Samples Obtained:

TPH (gasoline)	✓	5030/ 8015
TPH (diesel)		
TPH (motor oil)		
BTXE	✓	602 VOA
EPA 624		
EPA 625		
EPA 608		
PCBs only		
Metals		
Other, specify		
Field Blank		

3X

Well Sampling [✓] Well Development [ ] check one

Well Number: MW4

Job Number: 6039

Job Name: 1425 Encinal

Date: 3-18-94

Sampler: Bret Gilbert

Depth to Water (measured from TOC): 6.64

Inside Diameter of Casing: 2

Depth of Boring: 18'

Method of well development/purging: bail

Amount of Water Bailed/Pumped from well: 8.0

Depth to Water after well development: _____

Depth to water prior to sampling: 6.69

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell	✓	
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5		92	624
10		92	625
15		93	635
20		93	635
25			
30			
35			
40			
45			
50			

Samples Obtained:

TPH (gasoline)	✓
TPH (diesel)	
TPH (motor oil)	MW
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

APPENDIX B

CHROMALAB, INC.

Environmental Services (SDB)

March 29, 1994 ChromaLab File#: 9403325

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL **Project#:** 6039-5
Received: March 22, 1994

re: 5 samples for Gasoline and BTEX analysis.

Matrix: WATER
Sampled on: March 18, 1994 *Analyzed on:* March 23, 1994
Method: EPA 5030/8015/602 *Run#:* 2519

Lab # SAMPLE ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
47264 MW1	18000	570	180	270	1500
47265 MW2	7900	370	53	190	530
47266 MW3	450	9.6	11	5.5	23
47267 MW4	2100	11	1.5	2.3	6.0
47268 MW5	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS	50	0.5	0.5	0.5	0.5
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)	112	89	98	99	103

ChromaLab, Inc.

Billy Thach
Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

DOHS 1094

SUBM #: 9403325
CLIENT: ACC
22 DUE: 03/29/94
REF: 15698

Order # 15698
325/47264 – 68

Chain of Custody

DATE March 18, 1994 PAGE 1 OF 1

PROJ. MGR. Misty Kaltwieder
COMPANY ACC Environmental Consultants
ADDRESS 1000 Atlantic, 110 Suite
ALAMEDA, CA 9

SAMPLERS (SIGNATURE) (PHONE NO)
Bret Culbert (510) ~~658~~

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW1	3-18-94	5:00pm	H2O	cold	✓			✓																	3
MW2					✓			✓																	3
MW3					✓			✓																	3
MW4					✓			✓																	3
MW5					✓			✓																	3

PROJECT INFORMATION

PROJECT NAME: 2425 Encinal
PROJECT NUMBER: 6039-5
P.O. #

TAT: STANDARD 5-DAY | | | 24 | 48 | 72 | OTHER

SAMPLE RECEIPT

TOTAL NO OF CONTAINERS	15
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1	RELINQUISHED BY 2.	RELINQUISHED BY 3.
Bret Culbert 5:00 pm (SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
BRET Culbert 3.18.94 (PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
ACC Environmental Consulting (COMPANY)	(COMPANY)	(COMPANY)

RECEIVED BY 1	RECEIVED BY 2	RECEIVED BY (LABORATORY) 3.
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) 1305 (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	B. Glascow 3-22-94 (PRINTED NAME) (DATE)
(COMPANY)	(COMPANY)	(LAB)

CHROMALAB, INC.

Environmental Services (SDB)

April 11, 1994 ChromaLab File#: 9404099

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL **Project#:** 6039-5
Received: April 8, 1994

re: 1 sample for Gasoline and BTEX analysis.

Matrix: WATER
Sampled on: April 8, 1994 *Analyzed on:* April 11, 1994
Method: EPA 5030/8015/602 *Run#:* 2630

Lab # SAMPLE ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
48536 MW6	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS	50	0.5	0.5	0.5	0.5
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)	94	110	115	113	116

ChromaLab, Inc.

Jack Kelly
Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

DOHS 1094

2239 Omega Road, [illegible] San Ramon
(510)831-1788 • Facsimile 51

PUSH

SUBM #: 9404099
CLIENT: ACC
DUE: 04/11/94
REF: 15912

148536

Custody

DATE April 8, 1994 PAGE 1 OF 1

PROJ. MGR. Misty Kaltwieder
COMPANY ACC Environmental Consulting
ADDRESS 1000 Atlantic Ave, Suite 110
Alameda, CA 94501 ~~(510)522-0188~~

SAMPLERS (SIGNATURE) Bret Culbert
(PHONE NO.) (510) 522 8188

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW6	4.8.94	11 am	Water	Cold		✓																			3

PROJECT INFORMATION

PROJECT NAME: 2425 Encinal
PROJECT NUMBER: 6039-5
P.O. # 6039-5
TAT: STANDARD 5 DAY | 24 | 48 | 72 | OTHER

SAMPLE RECEIPT

TOTAL NO OF CONTAINERS	3
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

SPECIAL INSTRUCTIONS/COMMENTS:
72 hr. TAT
(4/11/94) Monday if Pass.

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
Bret Culbert 11am (SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
BRET CULBERT 4.8.94 (PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
ACE Environmental Consulting (COMPANY)	(COMPANY)	(COMPANY)
RECEIVED BY 1	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	R. Morrow 1442 (SIGNATURE) (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	R. Morrow 4-8-94 (PRINTED NAME) (DATE)
(COMPANY)	(COMPANY)	Chromalab (LAB)