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ENVIRONMENTAL
CONSULTANTS

April 5, 1995

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 impact.

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 groundwater impact.

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

Sincerely,

Misty Kaltreider

Misty C. Kaltreider
Geologist

cc: 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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ENVIRONMENTAL
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QUARTERLY GROUNDWATER INVESTIGATION

2425 ENCINAL
ALAMEDA, CALIFORNIA

Job Number 6039-5

April 1995

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

Prepared by: _____
Misty Kaltreider
Project Geologist

Reviewed by: _____
David R. DeMent, RG #5874
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REGISTERED GEOLOGIST
DAVID R. DEMENT
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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. 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 onsite. 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.

This preliminary Site Assessment was conducted to further evaluate the groundwater contamination from a gasoline release onsite according request of Alameda County Health Care Services - Hazardous Materials Division.

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

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 impact. Laboratory analysis of groundwater collected from monitoring well MW-4 indicated 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 impact is just off-site to the south. This "cross" 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 16, 1995 from monitoring wells MW-1, MW-2a, MW-3, MW-4, MW-5, and MW-6. 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 are 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
06/22/94	8.55	19.06
12/07/94	6.92	20.69
03/16/95	5.54	22.07
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
12/20/93	8.24	19.74
03/18/94	7.80	20.18
04/08/94	7.67	20.31
06/22/94	7.82	20.16
12/07/94	7.23	20.75
03/16/95	5.62	22.36

TABLE 1 - Groundwater Depth Information, cont.

Date Sampled	Depth to Groundwater (Ft.)	Groundwater Elevation (Ft.)
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
06/22/94	8.62	19.27
12/07/94	6.92	20.97
03/16/95	5.25	22.64
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
06/22/94	7.96	19.01
12/07/94	6.32	20.65
03/16/95	5.08	21.89
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
06/22/94	8.51	18.83
12/07/94	7.08	20.26
03/16/95	5.72	21.62
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
06/22/94	8.68	19.35
12/07/94	---	-----
12/13/94	6.73	21.30
03/16/95	5.04	22.99

Notes: All measurements in feet
MSL = Mean Sea Level

After water-level measurements were collected, each onsite 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 A.

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 B.

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 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. 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
	06/22/94	4,800	160.0	56.0	130.0	310.0
	12/07/94	9,100	530.0	200.0	350.0	1,300.0
	03/16/95	230	15.0	4.5	9.4	38.0
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
	06/22/94	3,800	420.0	37.0	140.0	290.0
	12/07/94	6,800	640.0	100.0	370.0	950.0
	03/16/95	6,500	590.0	96.0	360.0	1,000.0

TABLE 2 - Analytical Results - Groundwater, cont.

Well Number	Date Collected	TPH-gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
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
	06/22/94	2,500	150.0	130.0	81.0	280.0
	12/07/94	420	16.0	8.3	26.0	37.0
	03/16/95	490	19.0	2.7	24.0	46.0
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
	06/22/94	1,600	39.0	7.5	13.0	16.0
	12/07/94	2,100	82.0	9.6	4.7	14.0
	03/16/95	3,400	140.0	12.0	45.0	29.0
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
	06/22/94	<50	<0.5	<0.5	<0.5	<0.5
	12/07/94	<50	<0.5	<0.5	<0.5	<0.5
	03/16/95	<50	<0.5	<0.5	<0.5	<0.5
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
	06/22/94	<50	<0.5	<0.5	<0.5	<0.5
	12/13/94	<50	<0.5	<0.5	<0.5	<0.5
	03/16/95	<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 onsite 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 onsite 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, MW-5, and MW-6 on March 16, 1995 (illustrated in

Figure 3). The gradient was evaluated by triangulation using the elevation of the potentiometric surface measured with respect to Mean Sea Level datum.

Groundwater flow direction and gradient is consistent with previous sampling events as summarized in Table 3.

TABLE 3 - Historic Groundwater Gradient

Date Monitored	Gradient (foot/foot)	Direction
01/09/93	0.01	west
02/09/93	0.01	southwest
03/10/93	0.01	west/southwest
04/12/93	0.01	west/southwest
05/17/93	0.01	south/southwest
06/28/93	0.01	southwest
07/13/93	0.01	southwest
08/10/93	0.004	west
09/10/93	0.02	southwest
10/12/93	0.004	southwest
12/20/93	0.01	west
03/18/94	0.02	west
04/08/94	0.01	west
06/22/94	0.03	south/southwest
12/07/94	0.01 (average)	west/southwest
03/16/95	0.01	southwest

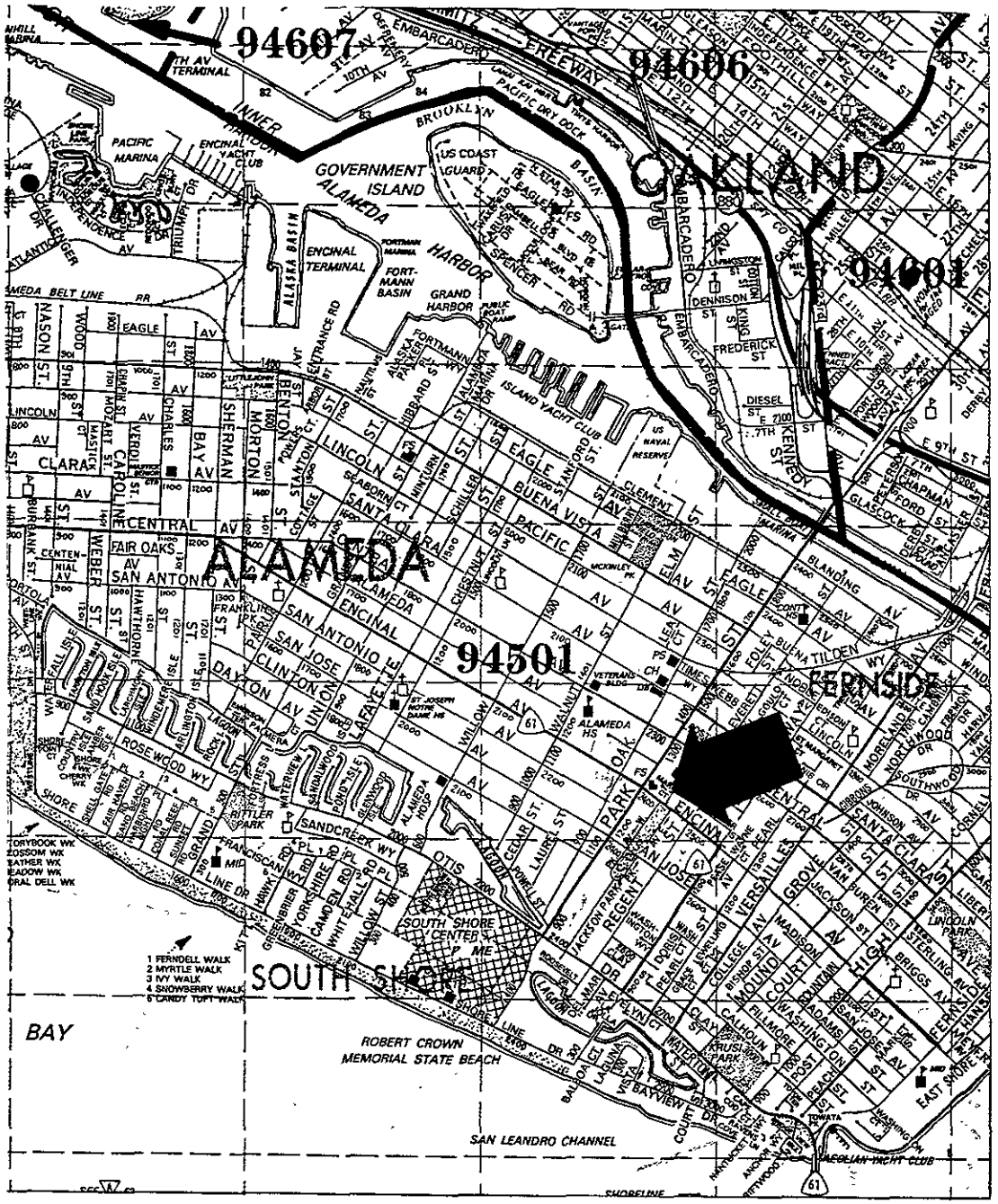
5.0 CONCLUSION

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.

The most recent groundwater sampling indicated detectable concentrations of petroleum hydrocarbons in monitoring wells MW-1 through MW-4; water elevation is at a historical high, TPHg concentration is at a historical low in MW-1, closest to former tank. TPHg concentrations have increased for three (3) consecutive quarterly sampling events corresponding to three (3) consecutive increases in groundwater elevation in MW-4. Since June 1994, varying concentrations of hydrocarbons in wells MW-1 through MW-4 appear to be a result of residual hydrocarbons from the former excavation that continue to be impacting the groundwater through fluctuating groundwater levels.

6.0 RECOMMENDATIONS

On behalf of Alameda Cellars, ACC proposes to reduce groundwater sampling on MW-6 from quarterly sampling to biannual sampling. Pursuant to the Tri-Regional Board guidelines, groundwater sampling and monitoring of the onsite wells should continue on a quarterly basis and shall include wells MW-1 through MW-5. Well number MW-6 will be monitored for groundwater levels on a quarterly basis, and sampled biannually. The next quarterly groundwater sampling will be conducted in June 1995.



Scale: 1" = 0.25 miles

Source: Thomas Brothers

Project No. 6093-3	**Location Map** Alameda Cellars 2425 Encinal Avenue Alameda, California	**Figure:** 1
Date: 03/20/1995		

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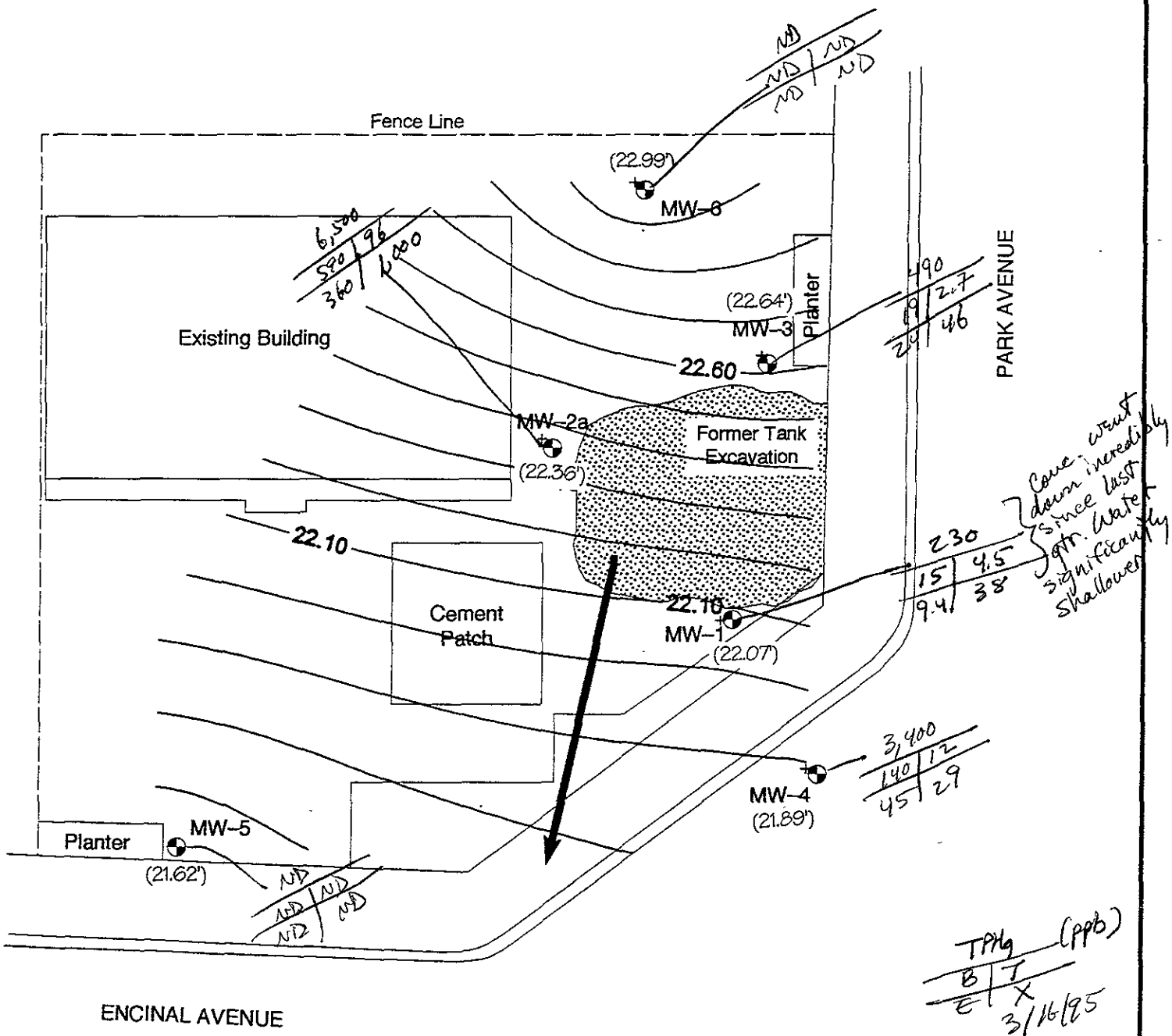

Legend

- Monitoring Well
- Groundwater Elevation Contour (Contour interval = 0.1 feet)
- Approximate Groundwater Flow Direction 3/16/95

Title:	Gradient Map 2425 Encinal Ave Alameda, California
Figure Number: 2	Scale: 1" = 20"
Drawn By: TRF	Date: 3/29/95
Project Number: 6039-5	

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N E W S

APPENDIX A

NOTES OF WELL SAMPLING

Well Sampling [X] Well Development [ ] check one

Well Number: MW1

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3/16/95

Sampler: ACE

Depth to Water (measured from TCC): 5.54

Inside Diameter of Casing: 2"

Depth of Boring: 17.32

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 8 gallons

Depth to Water after well development: _____

Depth to water prior to sampling: 5.87

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New Rope, New Bailer

Water Appearance:

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

Gallons Removed	pH	EC	Temp
2	6.27	717	70.2
4	6.22	8.36	70.8
6	6.20	8.28	70.7
20	6.18	8.25	69.9
25	6.18	8.24	69.9
30	6.18	8.23	69.8
35			
40			
45			
50			

Samples Obtained:

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

Well Sampling ☐ Well Development ☐ check one

Well Number: MW2A

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3/16/95

Sampler: ACE

Depth to Water (measured from TOC): 5.62

Inside Diameter of Casing: 2"

Depth of Boring: 14.15

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 6 gallons

Depth to Water after well development: 5

Depth to water prior to sampling: 5.92

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New Rope, New Bailer

Water Appearance:

	yes	no
froth		X
iridescence		X
oil		X
smell	X	
product		X
other, describe		X

Gallons Removed	pH	EC	Temp
~~5~~ 1.5	11.93	3.09	71.8
~~10~~ 3.0	11.90	4.49	70.4
~~13~~ 4.5	11.87	4.48	70.1
20	11.88	4.49	70.0
25	11.90	4.45	70.0
30	11.89	4.44	70.1
35			
40			
45			
50			

Samples Obtained:

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

Well Sampling [X] Well Development [ ] check one

11:15

Well Number: MW3

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3/17/95

Sampler: ACE

Depth to Water (measured from TOC): 5.25

Inside Diameter of Casing: 2"

Depth of Boring: 13.90

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 5.2 gallons

Depth to Water after well development: _____

Depth to water prior to sampling: 5.94

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New Rope, New Bailer

Water Appearance:

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

Gallons Removed	pH	EC	Temp
~~5~~ 1.3	14.80	4.75	70.2
~~10~~ 2.6	14.27	4.77	68.3
~~15~~ 3.9	14.30	4.73	68.2
20	14.31	4.75	68.1
25	14.29	4.74	67.9
30	14.29	4.74	67.9
35			
40			
45			
50			

Samples Obtained:

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

Well Sampling [X] Well Development [ ] check one

Well Number: MW 4

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3/16/95

Sampler: ACE

Depth to Water (measured from TOC): 5.08

Inside Diameter of Casing: 2"

Depth of Boring: 17.50

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 8.4 gallons

Depth to Water after well development:

Depth to water prior to sampling: 5.64

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New Rope New Bailer

Water Appearance:

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

Gallons Removed	pH	EC	Temp
~~5~~ 2.1	16.77	5.00	65.7
~~10~~ 4.2	15.87	4.98	65.7
~~15~~ 6.3	15.91	4.97	66.2
20	15.72	4.95	66.8
25	15.92	4.96	66.7
30	15.91	4.96	66.7
35			
40			
45			
50			

Samples Obtained:

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

Well Sampling [X] Well Development [ ] check one

Well Number: MW5

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3/16/95

Sampler: ACE

Depth to Water (measured from TOC): 5.72

Inside Diameter of Casing: 2"

Depth of Boring: 17.40

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 8 gallons

Depth to Water after well development:

Depth to water prior to sampling: 5.95

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New Rope, New Bailer

Water Appearance:

	yes	no
froth		
irridesence		
oil		
smell		
product		
other, describe		✓

Gallons Removed	pH	EC	Temp
2	7.68	5.15	67.2
4	17.36	5.20	66.1
6	16.95	4.93	67.2
20	16.96	5.01	67.5
25	6.74	5.02	6.76
30	6.94	5.01	67.6
35			
40			
45			
50			

Samples Obtained:

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

Well Sampling [X] Well Development [ ] check one

Well Number: MW6

Job Number: 6039-5

Job Name: 2425 Encinal

Date: 3/16/95

Sampler: ACE

Depth to Water (measured from TOC): 5.04

Inside Diameter of Casing: 2"

Depth of Boring: 17.48

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 8.4 gallons

Depth to Water after well development: ~~~~

Depth to water prior to sampling: 5.95

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New Rope, New Bailer

Water Appearance:

	yes	no
froth		
iridescence		
oil		
smell		
product		
other, describe		✓

Gallons Removed	pH	EC	Temp
5	7.11	11.61	12.13	67.1
10	4.21	10.89	12.59	66.8
15	6.31	10.80	12.61	66.7
20		10.77	12.56	66.8
25		10.77	12.55	66.9
30		10.76	12.56	66.7
35				
40				
45				
50				

Samples Obtained:

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

APPENDIX B

ANALYTICAL RESULTS
CHAIN OF CUSTODY

CHROMALAB, INC.

Environmental Services (SDB)

March 22, 1995 *Submission #:* 9503242

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL AVE. *Project#:* 6039-5
Received: March 16, 1995

re: 6 samples for Gasoline and BTEX analysis.

Matrix: WATER
Sampled: March 16, 1995 *Run#:* 5818 *Analyzed:* March 20, 1995
Method: EPA 5030/8015M/602/8020

Spl #	CLIENT SMPL ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
81359	MW1	0.23	15	4.5	9.4	38
81360	MW2A	6.5	590	96	360	1000
	Note: GAS DET.LIMIT=0.5mg/L, BTEX DET.LIMIT=5.0ug/L					
81361	MW3	0.49	19	2.7	24	46
81362	MW4	3.4	140	12	45	29
81363	MW5	N.D.	N.D.	N.D.	N.D.	N.D.

Matrix: WATER
Sampled: March 16, 1995 *Run#:* 5865 *Analyzed:* March 22, 1995
Method: EPA 5030/8015M/602/8020

Spl #	CLIENT SMPL ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
81364	MW6	N.D.	N.D.	N.D.	N.D.	N.D.
	Reporting Limits	0.05	0.5	0.5	0.5	0.5
	Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
	Blank Spike Result (%)	87	100	101	102	108

Jack Kelly
Chemist

Ali Kharrazi
Organic Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Chain of Custody

DATE 3/16/95 PAGE 1 OF 1

PROJ. MGR Misty Kaltreider
COMPANY ACC Environmental Consultants
ADDRESS 1000 Atlantic Ave. Ste. 110
Alameda, Ca 94105

SAMPLERS (SIGNATURE) Alison Ekdale
(PHONE NO.) 510-522-9188
(FAX NO.) 510-865-5731

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (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)		LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW1	3/16/95	10:20	Water	cold		X																			3
MW2A		10:45				X																			3
MW3		11:15				X																			3
MW4		9:35				X																			3
MW5		9:00				X																			3
MW6.1		11:45				X																			3

PROJECT INFORMATION

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

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

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	18
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) Alison Ekdale (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Alison Ekdale (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) ACC Environmental	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) 3:16:95 (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) Chromalab	(COMPANY)	(LAB)