

July 18, 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 & Kaltreider

Geologist

cc:

Mr. Richard Hiett - Regional Water Quality Control Board

Ms. Juliet Shin - Alameda County Health Care Services - Division of Hazardous Materials



# QUARTERLY GROUNDWATER INVESTIGATION

2425 ENCINAL ALAMEDA, CALIFORNIA

Job Number 6039-5

July 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



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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 June 22, 1994 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	$\overline{6.75}$	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
MARINE DELLA		101
Well No. MW-2a	Elevation of Top of Casing-27.98 N	
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
06/22/94	7.82	20.16
Milati Nia AMM 2	Elevation of Ton of Carina 27 90	MCI
Well No. MW-3	Elevation of Top of Casing-27.89 6.68	21.21
01/09/93	6.25	21.21
02/09/93	6.18	21.04
03/10/93		. —
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
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
Well No. MW-5	Elevation of Top of Casing-27.34	MSI
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
00/22/94	6.51	10.03
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

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 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	Date	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
Number	Collected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(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
MW-2a	01/09/93	5,680	801.6	598.6	840.2	2,196.1
141 44 Za	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
MW-3	01/09/93	< 50	< 0.5	< 0.5	< 0.5	< 0.5
101 00	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

TABLE 2 - Analytical Results - Groundwater

Well	Date	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Xylenes (ug/L)
Number	Collected	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
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
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
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

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

TABLE 3 - Historic Groundwater Gradient, cont.

Date Monitored	Gradient (foot/foot)	<u>Direction</u>
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
06/22/94	0.027	south/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.

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 contaminant 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.

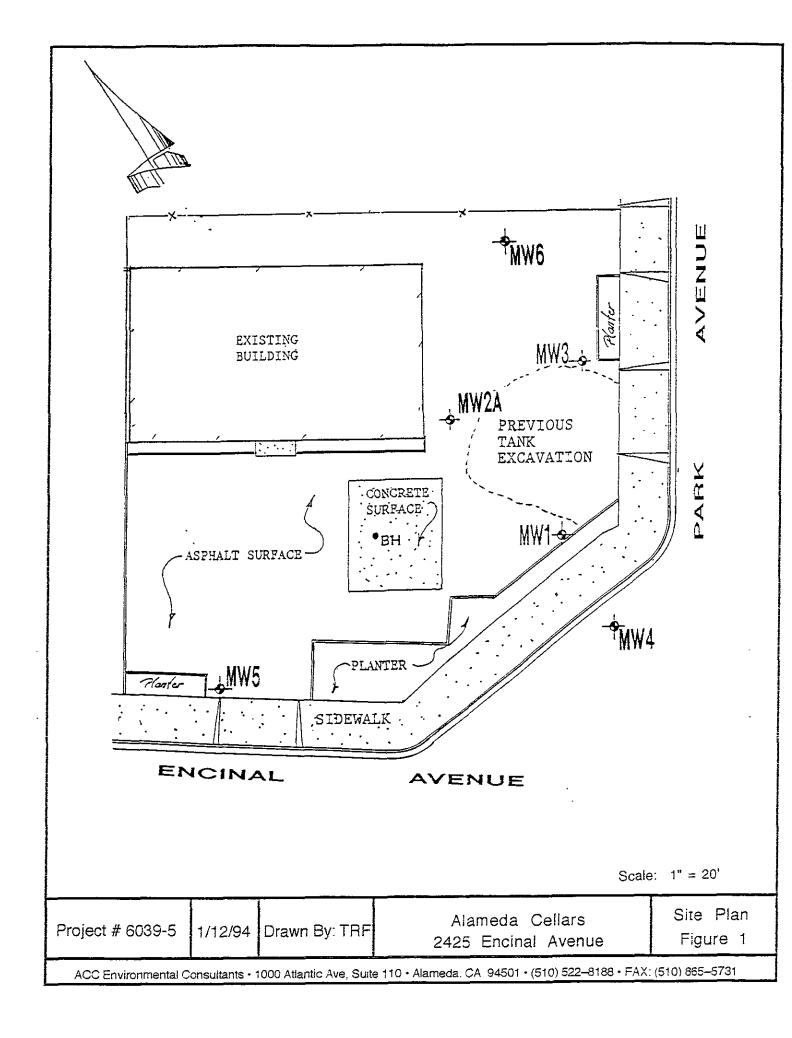
Laboratory analysis of the groundwater samples collected from monitoring well MW-5 and MW-6 in January and March - April, 1994 indicated below detectable levels of constituents evaluated. The groundwater results indicated a lateral extent of groundwater contamination. Laboratory analysis of groundwater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

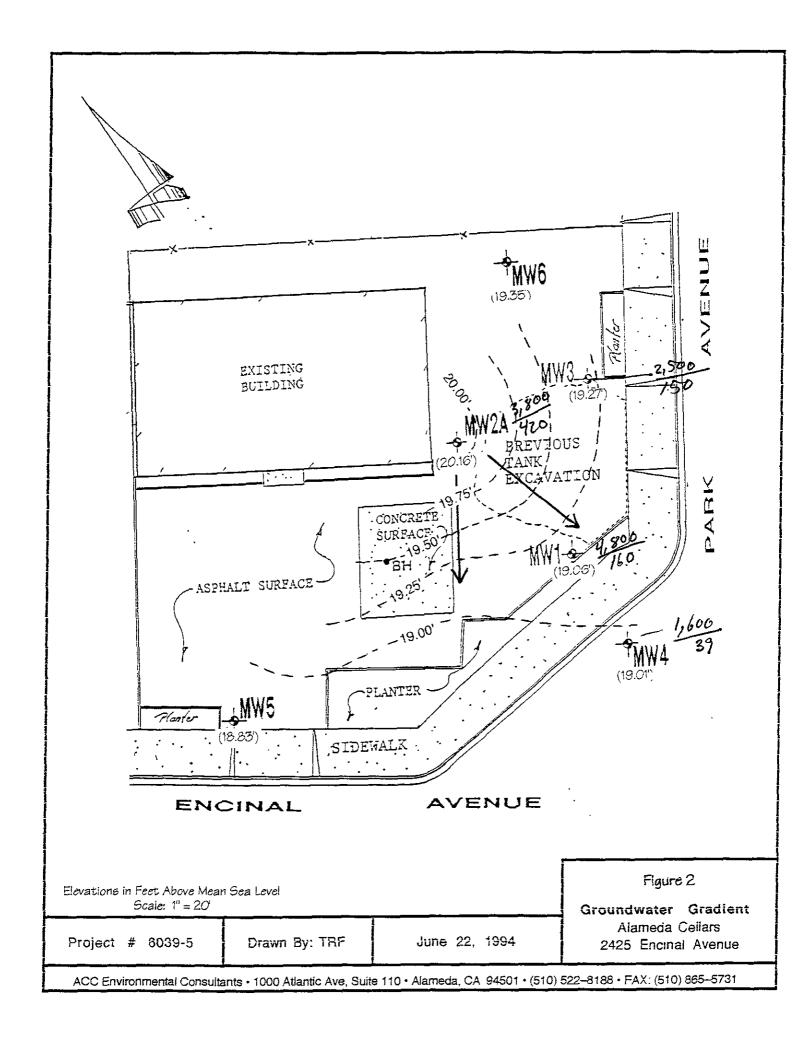
The location of the southern edge of the groundwater contaminant plume is just off-site to the south. This "side" gradient movement is attributed to the relatively flat gradient and possible recharge into the excavated area causing fluctuating lateral movement. However, the data to date indicate that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

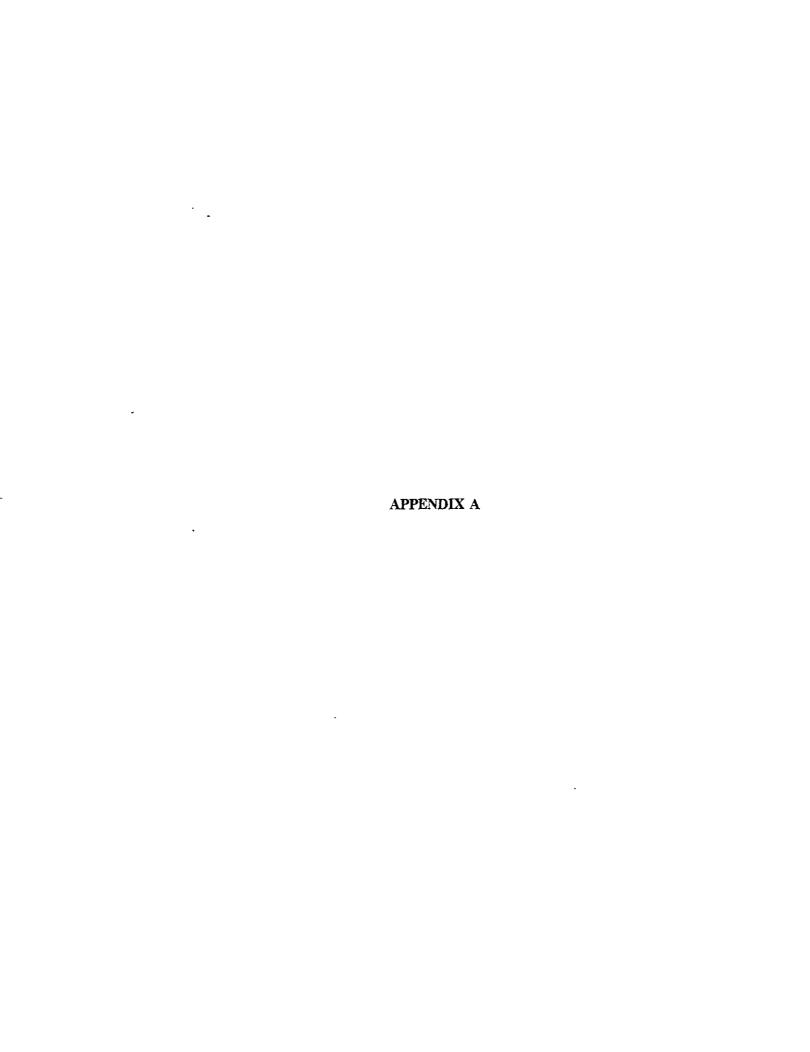
# 6.0 RECOMMENDATIONS

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.







Well Sampling Well Development	check one
Well Number: MW-1	
Job Number: 6039-1	
Job Name: 2425 Winner	
Date: 6-21-94	
Sampler: Culbert	
Depth to Water (measured from TCC):	8.55
Inside Diameter of Casing:	2"
Depth of Boring:/	·
Method of well development/purging:	Pump/Bail -
Amount of Water Bailed/Pumped from well:	70
Depth to Water after well development:	
Depth to water prior to sampling:	8.80
·	DIENNIS
•	4 plus
TSP wash, distilled rinse, new rope ?	ope/Bailor-New
Wester Appearance:	ope/Bailor-New
Water Appearance:	
froth irridesence	
oil	iles Obtained:
Sinen	nes Obtanies.
product TPH	(gasoline)
TPH	(diesel)
Canona herroved by	(motor oil)
8,8 690 Hat 6,70 67.1 BIXE	524
15  5.47  6.47  67.4 20  5.70  6.32  67.5   EPA 6	<del></del>
25 5,05 6.00 67.7 PCEs	·
30   5.01   5,70   67.4   Metals	<del></del>
- 33 // 1/2 // Fold	, specify
40 7/0	Ciain L.
50 45 9 4, 90 5,60 67.4	

Well Sampling Well Development	check one
Well Number: MW-2	
Job Number: 6039-5	
Job Name: 2425 Encinal	
Date: 6-21-94	
Sampler: Culhert	
Depth to Water (measured from TC	c): 7.82°
Inside Diameter of Casi	11
Depth of Boris	•
Method of well development/purgin	C 1
Amount of Water Bailed/Pumped from we	
Depth to Water after well developme.	
	ig: 8,98 Slow Recharge
Bailed water stored on-site? How	? Drums
Number of well volumes remove	d: 4 plus
TSP wash, distilled rinse, new rope	? Pump-Tsp/Distilled Rine
Water Appearance:	
ves ro	
froth irridesence	
oil	
smell	Samples Obtained:
product /	TPH (gasoline)
other, describe	TPH (diesel)
Gallons Removed   pH   EC   Temp!	TPH (motor oil)
\$6 6.50 7.21 723	BTXE
10 6.13 7.16 67.8	EPA 624
15 600 8.15 69.7	EPA 625 EPA 608
20  \$.55  7.21  6 <b>9</b> .1   25  \$140   7.04   67.4	PCEs only
25  5140   7,64  67.4   30    5.35   7,33   67.2	Metals
35 5.37 7.30 672	Other, specify
42 8 8 540 7,31 67.2	Field Blank
4.5	
50	

-

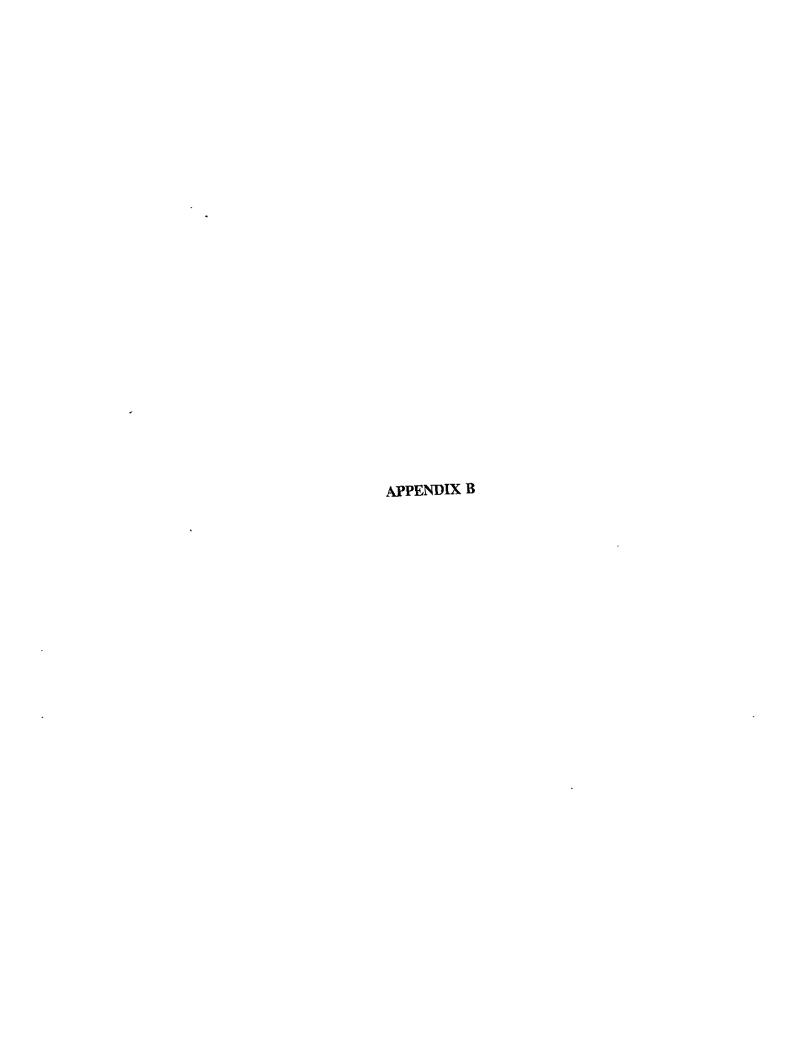
.

Well Samp	iling We	eil Development		checi	k one
Well Number:	MW-3	•••			
Job Number:_	6039-5				
Job Name:_	2425 ENCIN	<u>i</u> al	•		
- Date:_	6-21-94	_			
Sampler:	Culbert	_		•	
· .	Depth to Water	(measured from	TCC):	8.62	13 00
		ide Diameter of (		2"	
		Depth of l	Boring:	141	
	Method of wel	l aevelopment/pt			ail -
Ат	nount of Water Bai	iled/Pumped fron	n well:	5 gall	on >
	Depth to Water a				
	•	ater prior to san			
		stored on-site ? }			<u> </u>
•	Number of v	veil volumes rem	noved:	4	<del></del>
	TSP wasn, disti	iled rinse, new r	ope ?	Pump-T	<u>58</u>
Water Appearance:  froth irridesence oil smell	yes no/			noles Obtained:	<u>: .</u>
product other, describe			TPF	d (gasoline) d (diesel)	
5 4 /0. 10 8. 15 9. 20 7. 25 7.6 30 7.8 35 7.7	30 806 71.7		BTX EPA EPA EPA PCE Meta Othe	\ 624 \ 625 \ 608 Is only	
50					

Well Sampling Well Development	check one
Well Number: MW-7	
Job Number: 6039-5	
Job Name: 2425 Bucant	
. Date: <u>6-21-94</u>	
Sampler: Culbert	
Depth to Water (measured from TC	oc):7.96! 1
Inside Diameter of Cas	ing: 2"
Depth of Born	ing: /8'
Method of well development/purgi	1 1/2
Amount of Water Bailed/Pumped from w	, , , , , , , , , , , , , , , , , , ,
Depth to Water after well developme	Br. L.
Depth to water prior to sampli	ng:8.12
Bailed water stored on-site ? How	v? Drums
Number of well volumes remove	. 4
TSP wash, distilled rinse, new rope	O TODOSHILDER RINSE
, 13P Wash, distilled mise, new Tope	*
Water Appearance:  ves ref  froth	
irridesence	<u>.</u> .
smeil	Samples Obtained:
product	TPH (gasoline)
Let \ ather, describe \[ \limits_1 \]	TPH (diesel)
Callons Removed OH E Temp	TPH (motor oil)
88 14.86   C.II   \$66.4	BTXE
10 16,43   5,05   67.1	EPA 624
15 16.35   5.13 167.9	EPA 625
20 6.60 3.19 680	EPA 608 PCEs only
25   6.63   5.13   680   30 10   6.58   5.15   68.1	Metais
30 10 16.5% 5.13 1651	Other, specify
. 40	Field Blank

Well Sampling Well Development	. check ane
Well Number: MW-5	
Job Number: 6039-5	
Job Name: <u>Z425 Exxin</u> ac	-
Date: 6-21-94	
011 4	
Sampler: (ulbor)	251
Depth to Water (measured from 7	(CC):
Inside Diameter of Ca	sing: Z
Depth of So	oring: 18 '
Method of well development/pur	ging: Bail/Pump -
Amount of Water Bailed/Pumped from	
Depth to Water after well develops	
Depth to water prior to samp	ling: <u>864</u>
Bailed water stored on-site ? Ho	ow? Prims
Number of well volumes remo	ved: 4 dus
TSP wasn, distilled rinse, new rop	ved: 17105  Distilled Rinse  Distilled Rinse
Water Appearance:	
yes no	
irridesence	
oil smell	Samoles Obtained:
product	
other, describe	TPH (gasoline) TPH (diesel)
Gallons Removed pH & Tempt	TPH (motor oil)
139 7.85 5.69 68.7	BTXE EPA 624
10 7.29 5.97 68.8 15 17.03 6.04 68.8	EPA 625
20 16,9516,09169.7	EPA 608
25 6,98 6,20 588	PCBs only Metals
30 35	Other, specify
40	Field Blank
45	•
50	

Well Sampling Well Development	check one
Well Number: NW-6	
Job Number: <u>6039-5</u>	
Job Name: 2425 Encinal	
( )   Q/L	•
Sampler: Cultur	
Depth to Water (measured from TOC	c): <u>8.68</u>
Inside Diameter of Casir	g:2"
Depth of Borin	g:
Method of well development/purgin	g: pump
Amount of Water Bailed/Pumped from we	11:17 g
Depth to Water after well developmen	o
Depth to water prior to sampling	B:97
Bailed water stored on-site ? How	Duras
Number of well volumes removed	: <u> </u>
TSP wash, distilled rinse, new rope	? TSP Distilled
Water Appearance:	
froth	
oil	Ci Obtained
smeil product	Samples Obtained:
other, describe	TPH (gasoline) TPH (diesel)
Gallons Removed   DH   EC   Temp	TPH (motor oil)
5 806 6.21 643	BTXE EPA 624
10 7.01 6.01 64.3	EPA 625
2217 7.01 6.21 64.3	EPA 608
25 30	PCBs only Metals
35	Other, specify
40	Field Blank
50	



# CHROMALAB, INC.

Environmental Services (SDB)

June 30, 1994

Submission #:

9406272

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2425 ENCINAL Project#: 6039-5

Received: June 22, 1994

6 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled: June 21, 1994

Lab Run#: 3242

Analyzed: June 29, 1994

Method: EPA 5030/8015M/602

Lab # SAMPLE ID	Gasoline (mq/L)	Benzene (uq/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
55472 MW-1	4.8	160	56	130	310
55473 MW-2	3.8	420	37	140	290
55474 MW-3	2.5	150	130	81	280
55475 MW-4	1.6	39	7.5	13	16
55476 MW-5	N.D.	N.D.	N.D.	N.D.	N.D.
55477 MW-6	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS	0.05	0.5	0.5	0.5	0.5
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)	96	105	112	104	111

ChromaLab, Inc.

Chemist

Ali Kharrazi Organic Manager

Ali Khang

JACK 17:34:07

# CHROMALAB, INC. 2239 ( CLIENI: ACC DIE: 06/

**DOHS 1094** 

SUBM #: 9406272

DUE: 06/29/94

REF: 16978

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**Chain of Custody** 

.1E 6 22 94 PAGE \_\_\_\_\_ OF \_\_\_\_ **ANALYSIS REPORT** ALAMEDA, CA PURGEABLE HALOCARBONS (EPA 601, 8010) PURGEABLE AROMATICS BTEX (EPA 602, 8020) BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525) тРН - Diesel (EPA 3510/3550, 8015) TOTAL RECOVERABLE Y HYDROCARBONS (EPA NUMBER OF CONTAINERS VOLATILE ORGANICS (EPA 624, 8240, 524.2) TOTAL OIL & GREASE (EPA 5520, B+F, E+F) PRIORITY POLLUTANT METALS: Cd, Cr, Pb, (EPA 608, 8080) SAMPLERS (SIGNATURE) (PHONE NO.) Bret Cullet (570) 522-EXTRACTION (TCLP, STLC) TOTAL LEAD SAMPLE ID. TIME MATRIX: PRESERV. 1-WM H20 Cold 9 44 6-21 MW-2 0 AM MW-3 11 km MW-4 12 pm MW-5 MW-6 2. Am PROJECT INFORMATION SAMPLE RECEIPT RELINQUISHED BY RELINQUISHED BY RELINQUISHED BY PROJECT NAME: TOTAL NO. OF CONTAINERS 2425 ENCINAL 8 am HEAD SPACE (TIME) (SIGNATURE) (TIME) (SIGNATURE) 6039-5 (TIME) REC'D GOOD CONDITION/COLD (PRINTED NAME) P.O. # (PRINTED NAME) (PRINTED NAME) (DATE) CONFORMS TO RECORD ACC Guriron STANDARD) (COMPANY) (COMPANY) 72 OTHER (COMPANY) RECEIVED BY RECEIVED BY SPECIAL INSTRUCTIONS/COMMENTS: RECEIVED BY (LABORATORY) (SIGNATURE) (TIME) (SIGNATURE) (TIME) (PRINTED NAME) (PRINTED NAME) (DATE) (COMPANY) (LAB)