

April 29, 1996

Barney Chan Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

\* frail

Subject:

Second Quarterly Ground Water Sampling

Fiesta Beverage UST Site 966 8th Avenue 96 87th Ave

Oakland, California CWEC: 20591-001-01

Dear Mr. Chan,

In accordance with our verbal agreement I have enclosed all documents pertinent to the April 16, 1996, sampling activities of the three monitoring wells (MW-1, MW-2 and MW-3) at the project site. Laboratory analysis, ground water gradient (0.001 ft/ft) and ground water flow direction (to the northwest, see Figure 2) appear to be approximately consistent with the previous sampling activity of January 12, 1996. Two additional quarterly sampling activities will be conducted for a total of one year monitoring activity. Following the third sampling event, additional quarterly sampling documents will be sent to your office. After the final (fourth) quarterly sampling event, a final report will be submitted to your office and will include; four quarters of laboratory analytical results, four quarters of ground water gradient maps, ground water sampling records, and conclusions and recommendations.

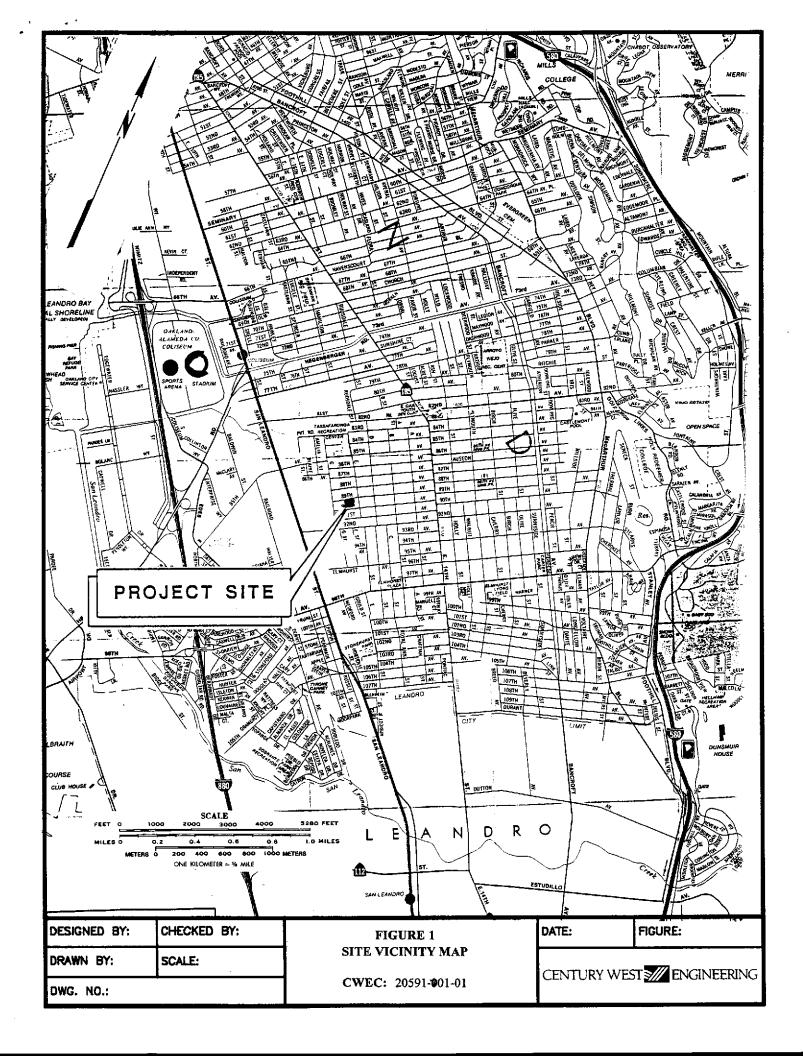
Please call if you have questions or need additional information.

Robert S. Bogar

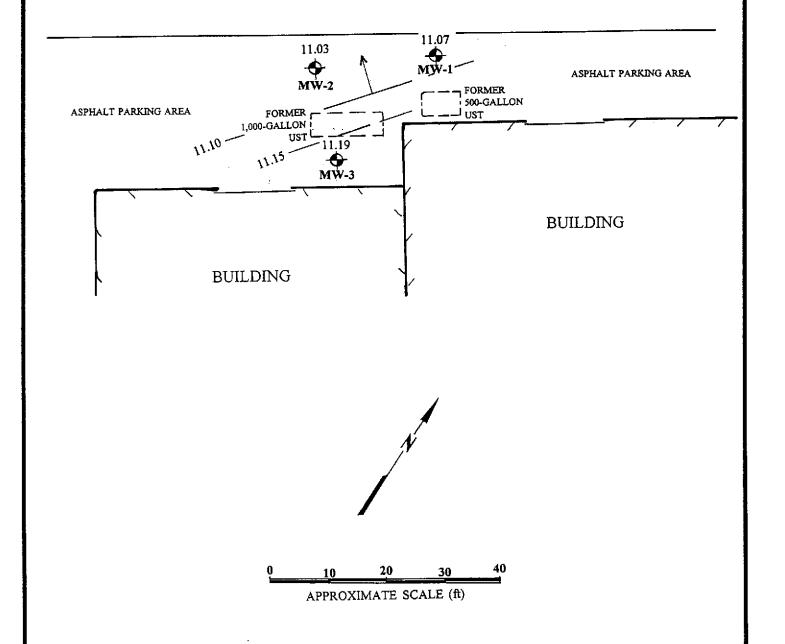
Post S Ber -

Geologist





#### 89TH AVENUE



DESIGNED BY:	CHECKED BY:	FIGURE 2	DATE:	FIGURE:		
DRAWN BY:	SCALE:	SITE PLAN/GRADIENT MAP	CENTURY WEST			
DWG. NO.:		(4/16/96) CWEC: 20591-001-01	CENTORI WESTS			



Santa Rosa Division 3636 North Laughlin Road Suite 110 Santa Rosa, CA 95403-8226 Tel: (707) 526-7200 Fax: (707) 541-2333

Bob Bogar Century West Engineering 7950 Dublin Blvd., Ste 210 Dublin, CA 94568 Date: 04/23/1996

NET Client Acct. No: 75300

NET Job No: 96.01342 Received: 04/18/1996

Client Reference Information

Fiesta Beverage/Proj. No. 20591-001-01

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2307.

Submitted by:

Project Coordinator

Enclosure(s)



Client Acct: 75300 NET Job No: 96.01342 Date: 04/23/1996

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97

SAMPLE DESCRIPTION: MW-1

Date Taken: 04/16/1996

Time Taken:

Bromofluorobenzene (SURR)

NET Sample No: 263262 Run Date Date Batch Reporting Analyzed Extracted No. Limit <u>Parameter</u> Results Flags Units Method TPH (Gas/BTXE, Liquid) 04/19/1996 3627 5030/M8015 04/19/1996 3627 DILUTION FACTOR\* 20 04/19/1996 3627 as Gasoline 3.5 1.0 mg/L 5030 8020 (GC, Liquid) 04/19/1996 3627 700 10 ug/L 8020 04/19/1996 3627 Benzene 55 10 ug/L 8020 04/19/1996 3627 Toluene 8020 04/19/1996 3627 Ethylbenzene 100 10 ug/L 04/19/1996 3627 Xylenes (Total) 100 10 ug/L 8020 04/19/1996 3627 SURROGATE RESULTS 3627 04/19/1996

% Rec.

5030

Client Acct: 75300 NET Job No: 96.01342 Date: 04/23/1996

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SAMPLE DESCRIPTION: MW-2

Date Taken: 04/16/1996

Time Taken:

Run NET Sample No: 263263 Batch Date Date Reporting No. Analyzed Limit Results <u>Parameter</u> TPH (Gas/BTXE, Liquid) 3627 04/19/1996 5030/M8015 04/19/1996 3627 DILUTION FACTOR\* 3627 04/19/1996 mg/L 5030 0.19 2 0.050 as Gasoline 04/19/1996 3627 8020 (GC, Liquid) 04/19/1996 3627 39 0.50 ug/L B020 Benzene 04/19/1996 3627 11 0.50 ug/L 8020 Toluene 04/19/1996 3627 0.50 ug/L 8020 10 Ethylbenzene 04/19/1996 3627 8020 0.50 ug/L Xylenes (Total) 14 3627 04/19/1996 SURROGATE RESULTS 3627 04/19/1996 5030 % Rec. Bromofluorobenzene (SURR)

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SAMPLE DESCRIPTION: MW-3

Date Taken: 04/16/1996

Time Taken:

Run NET Sample No: 263264 Batch Date Reporting Analyzed Νo. Limit Method <u>Extracted</u> Results Flags <u>Parameter</u> TPH (Gas/BTXE, Liquid) 04/19/1996 3627 5030/M8015 3627 04/19/1996 10 DILUTION FACTOR\* 3627 04/19/1996 mg/L 5030 5.4 0.50 as Gasoline 3627 04/19/1996 8020 (GC, Liquid) --04/19/1996 3627 8020 370 5.0 ug/L Benzene 04/19/1996 3627 8020 340 5.0 ug/L Toluene 04/19/1996 3627 8020 160 5.0 ug/L Ethylbenzene 04/19/1996 3627 ug/L 8020 5.0 Xylenes (Total) 580 04/19/1996 3627 SURROGATE RESULTS 3627 04/19/1996 5030 % Rec. Bromofluorobenzene (SURR) 101

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# CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

			er er g		the state of the s	and the second of the second o		
		CCA	CCV			100		
	CCV	Standard	Standard		*		Ē	Run
	Standard	Amount	Amount			Date	Analyst	Batch
Parameter	% Recovery	Found	Expected	Flags	Units	Analyzed	Initials	Number_
TPH (Gas/BTXE, Liquid)			•					
as Gasoline	100.0	0.50	0.50		mg/L	04/19/1996	aal	3627
Benzene	89.4	4.47	5.00		ug/L	04/19/1996	aal	3627
Toluene	89.0	4.45	5.00		ug/L	04/19/1996	aal	3627
Ethylbenzene	90.8	4.54	5.00		ug/L	04/19/1996	aal	3627
Xylenes (Total)	90.0	13.5	15.0		ug/L	04/19/1996	aal	3627
Bromofluorobenzene (SURR)	87.0	87	100		% Rec.	04/19/1996	aal	3627

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## METHOD BLANK REPORT

		Method Blank						Run
Parameter		Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Batch Number
TPH (Gas/BTXE, Liquid)						4 9		
as Gasoline		ND	0.050		mg/L	04/19/1996	aal	3627
Benzene		ND	0.50		ug/L	04/19/1996	aal	3627
Toluene		ND	0.50		ug/L	04/19/1996	aal	3627
		ND	0.50		ug/L	04/19/1996	aal	3627
Ethylbenzene	-	ND	0.50		ug/L	04/19/1996	aal	3627
Xylenes (Total)		89	0.50		t Rec.	04/19/1996	aal	3627

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### MATRIX SPIKE / MATRIX SPIKE DUPLICATE

	Matrix Spike	Matrix Spike Dup		Spike	Sample	Matrix Spike	Matrix Spike Dup.			Date		Sample
Parameter	₹ Rec.	% Rec.	RPD	Amount	Conc.	Conc.	Conc.	Flags	Units	Analyzed	<u>Batch</u>	Spiked
TPH (Gas/BTXE, Liquid)									*			263263
as Gasoline	94.0	92.0	2.2	0.50	0.19	0.66	0.65		mg/L	04/19/1996	3627	263263
Benzene				5.90	39			NI2	ug/L	04/19/1996	3627	263263
Toluene	103.9	101.6	2.2	22.8	11	34.7	34.17		ug/L	04/19/1996	3627	263263
Promofluorobenzene (SIRP)	108.0	108 0	0.0	100	98	108	108		% Rec.	04/19/1996	3627	263263

NATIONAL ENVIRONMENTAL ® TESTING, INC.
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NE	NATIONAL ENVIRONMENTA ® TESTING, INC.	PHONE		
(PRINT NAME)	SAMPLE 1D/DESCRIPTIO		# and Type of Containers	NALYSES
4/16	MW-1 MW-2 MW-3			COMMENTS  57 7 A-
				CUSTODY SEALED  Date 1/1/16 Time 122 Initials 25  / SEAL INTACT?  Yes No Initials 25
SAMPLE RE	I REQUES		OC SEALS PRESENT AND INTACT? (ES) NO DLATILES FREE OF HEADSPACE? VES / NO  TVIA  PLE REMAINDERS  RELINQUISHED BY  925	TEMPERATURE UPON RECEIPT: 6 Postiles supplied by NET? (ES) NO  DATE  DAT



#### KEY TO RESULT FLAGS

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: RPD between sample duplicates exceeds 30%.
      : RPD between sample duplicates or MS/MSD exceeds 20%.
      : Correlation coefficient for the Method of Standard Additions is less than 0.995.
      : Sample result is less than reported value.
     : Value is between Method Detection Limit and Reporting Limit.
B-I
      : Analyte found in blank and sample.
      : The result confirmed by secondary column or GC/MS analysis.
      : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
COMP : Sample composited by equal volume prior to analysis.
      : The result has an atypical pattern for Diesel analysis.
D-
      : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
DI
     : The result appears to be a heavier hydrocarbon than Diesel.
DH
     : The result appears to be a lighter hydrocarbon than Diesel.
DR
     : Elevated Reporting Limit due to Matrix.
DS
      : Surrogate diluted out of range.
     : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
DX
FΑ
     : Compound quantitated at a 2X dilution factor.
     : Compound quantitated at a 5X dilution factor.
FΒ
     : Compound quantitated at a 10% dilution factor.
FC
     : Compound quantitated at a 20% dilution factor.
FD
     : Compound quantitated at a 50% dilution factor.
FE
\mathbf{F}\mathbf{F}
     : Compound quantitated at a 100% dilution factor.
     : Compound quantitated at a 200% dilution factor.
FG
     : Compound quantitated at a 500% dilution factor.
FH
     : Compound quantitated at a 1000% dilution factor.
FΙ
     : Compound quantitated at a greater than 1000x dilution factor.
FJ
     : Compound quantitated at a 25% dilution factor.
FΚ
     : Compound quantitated at a 250X dilution factor.
FL
     : The result has an atypical pattern for Gasoline.
G-
     : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
G1
     : The result appears to be a heavier hydrocarbon than Gasoline.
GH
     : The result appears to be a lighter hydrocarbon than Gasoline.
GL
     : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
GΧ
     : Peaks detected within the quantitation range do not match standard used.
HХ
J
     : Value is estimated.
MI
     : Matrix Interference Suspected.
    : Value determined by Method of Standard Additions.
MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
    : Sample spikes outside of QC limits; matrix interference suspected.
NI1
     : Sample concentration is greater than 4% the spiked value; the spiked value is
       considered insignificant.
    : Matrix Spike values exceed established QC limits, post digestion spike is in
NI3
       control.
P7
     : pH of sample > 2; sample analyzed past 7 days.
    : Refer to subcontract laboratory report for QC data.
RSC
     : Matrix interference confirmed by repeat analysis.
    : Thiocyanate not analyzed separately; total value is below the Reporting Limit for
SCN
       Free Cyanide.
UMDL : Undetected at the Method Detection Limit.
```