

March 15, 2004
BEI Job No. 203004

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Mr. Amir Gholami
Alameda County Health Care Services Agency
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda County

MAR 18 2004

Environmental Health

**Subject: Recommendation for Reduction of Groundwater Monitoring
Former Fiesta Beverage Facility
966 89th Avenue
Oakland, California
ACHCSA Site # RO0000314**

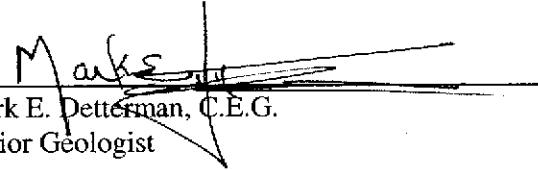
Dear Mr. Gholami:

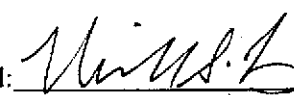
Blymyer Engineers, Inc., on behalf of the Fiesta Beverage Company, has reviewed existing groundwater analytical data and recommends a reduction in the groundwater monitoring and sampling interval. The site has been monitored periodically since removal of the underground storage tank (UST) in 1993, and most recently has been on a quarterly groundwater monitoring and sampling interval. Groundwater contaminant concentrations continue to fluctuate significantly and likely indicate a residual source of gasoline fuel-related contamination in soil surrounding the former UST location (Tables II and III). However, the accumulation of additional quarterly data will not significantly improve the understanding of contaminants in the subsurface at this site. At this juncture, Fiesta Beverages has identified remedial actions (initially through a remedial investigation to identify the location of the presumed residual contamination) as the appropriate next step for funding, rather than continued collection of marginally useful data. Blymyer Engineers is in agreement and, unless directed otherwise by the County, we will proceed with semi-annual groundwater monitoring until the fluctuation in contaminant concentrations decreases.

Should you have questions, or should you wish to comment on these proposed actions, please contact Mark Detterman at (510) 521-3773.

Sincerely,

Blymyer Engineers, Inc.

By: 
Mark E. Detterman, C.E.G.
Senior Geologist

And: 
Michael S. Lewis
Vice President, Technical Services

Enclosure Table II: Summary of Groundwater Sample Hydrocarbon Analytical Results
 Table III: Summary of Groundwater Sample Fuel Oxygenate Analytical Results

cc. Mr. Ted Walbey, Fiesta Beverages Company

Table II, Summary of Groundwater Sample Hydrocarbon Analytical Results
BEI Job No. 203004, Fiesta Beverage
966 89th Avenue, Oakland, California

Sample ID	Date	Modified EPA Method 8015 ($\mu\text{g/L}$)	EPA Method 8020 or 8021B ($\mu\text{g/L}$)					Field Measurement (mg/L)
		TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DO
MW-1	8/6/93	17,000	7.1	8.4	9.2	53	NA	NA
	1/12/96	12,000	1,900	840	370	1,100	NA	NA
	4/16/96	3,500	700	55	100	180	NA	NA
	7/15/96	11,000	2,300	450	350	910	NA	NA
	10/16/96	21,000	4,200	2,200	650	2,600	NA	NA
	12/15/98	10,000	1,800	520	270	1,100	<350	NA
	1/18/01	11,000 ^a	2,000	320	320	1,100	<120	NA
	4/25/01	2,100 ^{a,c}	270	46	59	130	<5.0	NA
	3/17/03*	2,200 ^a	260	19	36	54	NA ^d	NA
	6/23/03	6,100 ^a	930	53	99	200	NA	0.4
	9/18/03	3,800 ^a	660	13	24	34	NA	0.4
	12/15/03	260 ^a	19	1.1	<0.5	1.5	NA	1.1
MW-2	8/6/93	2,700	1.3	1.7	2.0	8.1	NA	NA
	1/12/96	2,700	600	310	94	220	NA	NA
	4/16/96	190	39	11	10	14	NA	NA
	7/15/96	700	160	33	34	48	NA	NA
	10/16/96	190	48	8.2	10	13	NA	NA
	12/15/98	200	62	17	4.9	14	4.4 ^b	NA
	1/18/01	300 ^a	74	26	7.3	21	7.3	NA
	4/25/01	<50 ^c	4.5	2.2	0.57	1.9	<5.0	NA
	3/17/03*	78 ^a	26	3.3	1.5	3.5	NA ^d	NA
	6/23/03	160 ^a	51	1.6	1.2	1.8	NA	0.6
	9/18/03	<50	2.1	<0.5	<0.5	<0.5	NA	1.3
	12/15/03	<50	12	<0.5	<0.5	<0.5	NA	1.6

Table II, Summary of Groundwater Sample Hydrocarbon Analytical Results
BEI Job No. 203004, Fiesta Beverage
966 89th Avenue, Oakland, California

Sample ID	Date	Modified EPA Method 8015 ($\mu\text{g/L}$)	EPA Method 8020 or 8021B ($\mu\text{g/L}$)					Field Measurement (mg/L)
		TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	DO
MW-3	8/6/93	5,200	2.1	2.9	3.6	17	NA	NA
	1/12/96	4,500	280	180	120	470	NA	NA
	4/16/96	5,400	370	340	160	580	NA	NA
	7/15/96	1,800	200	220	66	250	NA	NA
	10/16/96	2,000	340	140	100	300	NA	NA
	12/15/98	1,400	200	39	72	150	<22	NA
	1/18/01	1,800 ^a	240	41	86	120	<10	NA
	4/25/01	8,300 ^{a, c}	300	330	200	1,100	<20	NA
	3/17/03*	2,100 ^a	240	78	10	280	NA ^d	NA
	6/23/03	<50	2.5	0.60	0.69	1.4	NA	0.7
	9/18/03	<50	<0.5	<0.5	<0.5	<0.5	NA	0.4
12/15/03	2,400	300	120	140	260	NA	1.6	
MCL		N/A	1.0	150	700	1,750	13	N/A
City of Oakland RBSL; Commercial / Industrial Land Use; Clayey Silt Default; Groundwater a Potential Source of Drinking Water; (Groundwater Ingestion)		N/A	1.0	150	700	1,000	20	N/A
RWQCB RBSL Commercial / Industrial Land Use; Groundwater Not a Potential Source of Drinking Water		500	46	130	290	13	1,800	N/A

Table II, Summary of Groundwater Sample Analytical Results; continued

Notes: $\mu\text{g/L}$	=	Micrograms per liter
mg/L	=	Milligrams per liter
TPH	=	Total Petroleum Hydrocarbons
MTBE	=	Methyl <i>tert</i> -butyl ether
DO	=	Dissolved oxygen
NA	=	Not analyzed
<x	=	Less than the analytical detection limit (x)
EPA	=	Environmental Protection Agency
N/A	=	Not applicable
MCL	=	Maximum Contaminant Level
>Sol.	=	Greater than the solubility of pure product in water
RWQCB	=	Regional Water Quality Control Board
RBSL	=	Risk Based Screening Level
^a	=	Laboratory note indicates the unmodified or weakly modified gasoline is significant.
^b	=	Confirmed with EPA Method 8260.
^c	=	Groundwater samples for MW-1 and MW-3 suspected to have been switched (mismarked) in field. First collection of groundwater samples after application of Hydrogen Peroxide on March 7, 2001.
^d	=	Analysis conducted by EPA Method 8260. See Table III.
*	=	Initial data set collected under direction of Blymyer Engineers, Inc.

Bold results indicate detectable analyte concentrations.

Shaded results indicate analyte concentrations above the MCL.

Table III, Summary of Groundwater Sample Fuel Oxygenate Analytical Results BEI Job No. 203004, Fiesta Beverage 966 89 th Avenue, Oakland, California						
Sample ID	Date	EPA Method 8260B				
		DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)
MW-1	3/17/03	<0.50	<0.50	10	8.3	<5.0
	6/23/03	<2.5	<2.5	8.0	6.4	<25
	9/18/03	<2.5	<2.5	8.5	5.3	<25
	12/15/03	<0.5	<0.5	12	9.0	<5.0
MW-2	3/17/03	<0.50	<0.50	13	2.1	6.0
	6/23/03	<0.50	<0.50	11	4.5	<5.0
	9/18/03	<2.5	<2.5	5.0	0.74	<25
	12/15/03	<0.5	<0.5	13	3.2	5.2
MW-3	3/17/03	<0.50	<0.50	10	4.3	8.6
	6/23/03	<0.50	<0.50	5.6	2.6	<5.0
	9/18/03	<2.5	<2.5	10	3.6	<25
	12/15/03	<0.5	<0.5	13	2.7	<5.0

Notes: DIPE = Di-isopropyl ether
ETBE = Ethyl *tert*-Butyl ether
MTBE = Methyl *tert*-butyl ether
TAME = *tert*-Amyl methyl ether
TBA = *tert*-Butyl alcohol
 $\mu\text{g/L}$ = Micrograms per liter