

February 8, 1982

Mr. Richard Michael Chevron U.S.A. Marketing Division 7700 Edgewater Drive Oakland, CA 94621

> RE: Progress Report #1 Gasoline Leakage Chevron Station 1802 Webster Street Alameda, CA 94501 WC58X5

Dear Mr. Michael:

This report summarizes the work performed and the findings to date at the Chevron Service Station in Alameda, California.

Our initial meeting was held at the site, shown in Figure 1, on January 18, 1982. Phil Chang, from J. H. Kleinfelder & Associates, also attended this meeting. At this meeting the six monitoring well locations, shown in Figure 2, were selected by those present as being the most appropriate for an initial subsurface investigation. Concerns for detecting gas near the source and at the site's boundary were used when selecting the well locations.

The subsurface investigation began on Thursday, January 21. A truckmounted drilling rig equipped with a six-inch-diameter continuous flight auger was used to complete the six borings for the monitoring wells. Each of the borings extends to a depth of 20 feet. Soils were visually classified and recorded. Logs of soil borings are being prepared and will be forwarded to you. Free gasoline was never apparent in the drill cuttings, and the odor of gasoline was not detected.

All six of the borings were completed as monitoring wells as shown in Figure 3. The groundwater level in each well was at approximately 5 feet below grade. Wells at a depth of 20 feet are considered a minimum in order to span the entire depth of the subsurface tank farm.

On January 21, the six groundwater monitoring wells were sampled, purged using a vacuum truck, and resampled. The results of the sampling are summarized in Table 1.

Each well was analyzed using a Gastech GX-3 meter. The concentration of combustible gases in each well was measured in parts per million (ppm), along with the percentage of the lower explosive limit (LEL). Groundwater samples from each well were observed, and the groundwater level (GWL) was noted. Each well was vacuumed until dry, using a 20-foot, 1-inch PVC "stinger." A total of approximately 150 gallons of water was removed from the station. Sampling and testing was again performed for each well directly after the vacuuming procedure.

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Follow-up samples have not been taken; however, the excavation area was observed on January 26 and 27. A slight sheen of gas could be seen on the water at all times on the 26th, and a moderate gas odor persisted at the site. A substantial layer of gas was never observed. With the excavation level less than the groundwater level, the flow of most surrounding material should have been toward the site. The excavation was then observed on the 27th, prior to the water removal by a vacuum truck. Only a slight sheen could be seen.

We trust the information contained herein meets your needs at this time. Please call if you have any questions.

Very truly yours,

Thomas E Pearson

Thomas E. Pearson Project Manager

TEP/rw

Attachment







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Alameda Station

	WELL B-1	1/21/82 INITIAL	1/21/82 FINAL
Compustibile (Janu-SPPM LEL	≥1000 60	200-0 2
	GWL Remarks:	4.50 Feet	4.42 Feet
	Sample	Cloudy Light Tan No Sheen Strong Odor	Clear No Sheen No Odor
	Well	App. 30 sec. until dry	
	WELL B-2		
	PPM LEL	>1000 20-5	500-200 7
	GWL Remarks:	3.42 Feet	3.54 Feet
	Sample	Cloudy Light Tan 1/4" Hydrocarbon Strong Odor	Clear No Sheen Slight Odor
	Well	App. 30 sec. until dry	-
	WELL B-3	÷	
	PPM 1 FI	>1000	100 2
	GWL Remarks	4.10 Feet	3.94 Feet
	Sample	Cloudy Slight Sheen Moderate Odor	Clear No Sheen Strong Odor
	Well	App. 30 sec. until dry	Strong oddi
	WELL B-4		
	РРМ	- 650 -400 -	>1000
	GWL Remarks:	.3.85 Feet	4.02 Feet
	Sample	Cloudy Tan No Sheen Moderate Odor	Clear No Sheen Moderate Odor
	Well	App. 30 sec. until dry	

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TABLE 1

Alameda Station

WELL B-5	1/21/82 INITIAL	1/21/82 FINAL
PPM	0	0
LEL GWL Remarks:	0 2.80 Feet	0 2.85 Feet
Sample	Cloudy Light Tan No Sheen	Clear No Sheen
Well	No Udor App. 30 sec. until dry	NO Udor
WELL B-6		
PPM LEL	0 0	0 0
GWL Remarks:	3.93 Feet	4.07 Feet
Sample	Cloudy Light Tan 1/4" Foam Layer No Odor	Slightly Cloudy No Sheen No Odor
Well	App. 30 sec. until dry	

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