HAGEMAN-AGUIAR, INC.

Underground Contamination Investigations
Groundwater Consultants, Environmental Engineering

3732 Mt. Diablo Blvd. Suite 372 Lafayette, California 94549 (510) 284-1661 FAX (510) 284-1664

SEPTEMBER 26, 1991

QUARTERLY
GROUNDWATER SAMPLING REPORT

FORMER CHEVRON STATION 11727 Main Street Sunol, CA

On August 19, 1991, the on-site monitoring well was sampled for the subsequent laboratory analysis for dissolved petroleum constituents. The sampling is part of the regular quarterly shallow groundwater monitoring program, as required by the Alameda County Environmental Health Department and the California State Regional Water Quality Control Board. The location of the site is shown in Figure 1.

Monitoring Well Sampling and Laboratory Analysis

On August 19, 1991, the on-site well was purged, and a groundwater sample was subsequently collected. The location of the monitoring well is shown in Figure 2 (site map). Prior to groundwater sampling, the well was purged by bailing 3 to 5 casing volumes of water. Field conductivity,

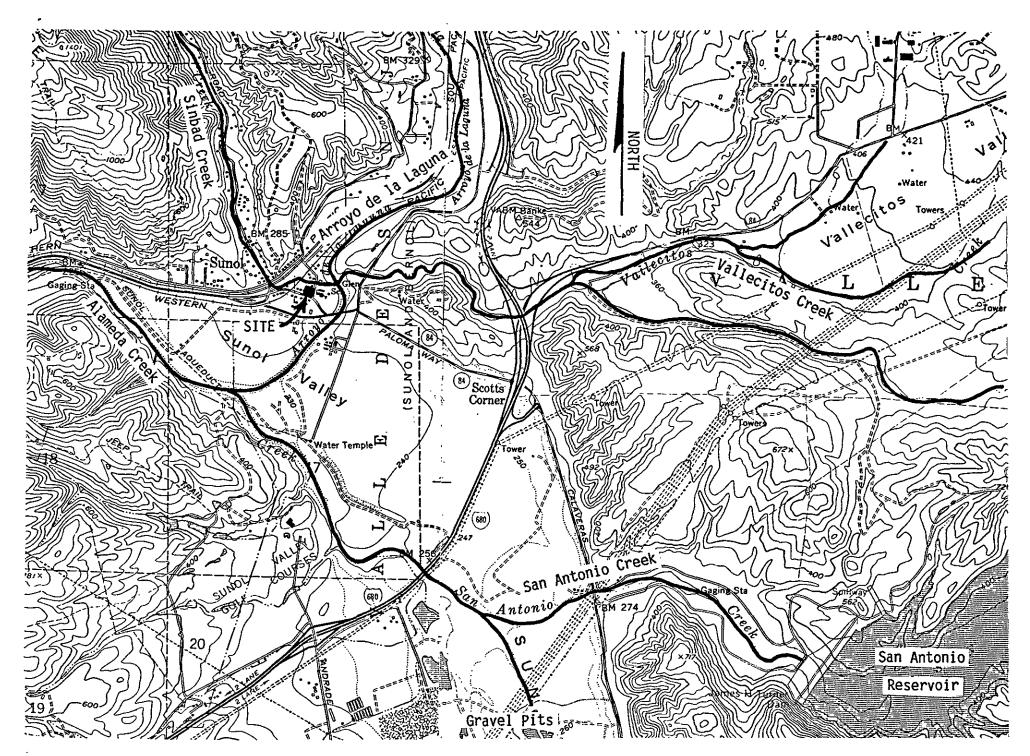


FIGURE 1. Site Vicinity Map

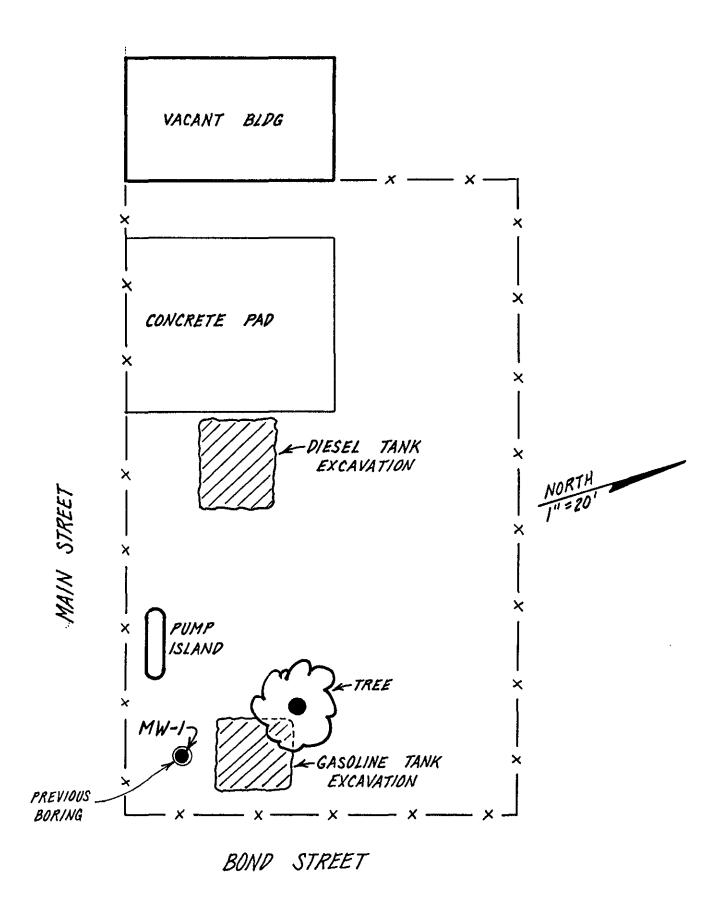


FIGURE 2. Location of Shallow Groundwater Monitoring Well MW-1.

temperature, and pH meters were present on-site during the monitoring well sampling. As the purging process proceeded, the three parameters were monitored. Purging continued until readings appeared to have reasonably stabilized. After the water level in the well had attained 80% or more of the original static water level, a groundwater sample was collected using a clean teflon bailer. The water sample was placed inside appropriate 40 mL VOA vials free of any headspace. The samples were immediately placed on ice, then transported under chain-of-custody to the laboratory at the end of the work day.

At the time the monitoring well was sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear teflon bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample. A copy of the well sampling log is included as Attachment A.

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures. The groundwater sample was analyzed for total petroleum hydrocarbons as Diesel, total petroleum hydrocarbons as Gasoline, and Benzene, Toluene, Ethylbenzene, and Total Xylenes.

All water removed from the well during development and purging was drummed and stored on-site until the results of laboratory analyses were obtained. Depending upon these results, the water will be sewered as a non-hazardous liquid waste in accordance with local sewering agency permit requirements, or else it will be transported as a hazardous liquid waste under proper manifest to an appropriate TSD facility for treatment and disposal.

Laboratory Results.

Table 1 presents the results of the laboratory analysis for TPH and BTEX of the groundwater sample collected from monitoring well MW-1. As shown in this table, the shallow groundwater sample showed 480 ug/L (ppb) of dissolved Diesel. For the first time since shallow groundwater monitoring began at the site, Gasoline, Benzene, Ethylbenzene, and Total Xylenes were detected in the groundwater sample at concentrations of 260 ug/L (ppb), 0.6 ug/L (ppb), 0.7 ug/L (ppb) and 3.1 ug/L (ppb), respectively.

A copy of the laboratory certificate for the water sample analysis is included as Attachment B.

No. C-34262

No. C-34262

REPORT H. AGUINATE EXP. 9-30-95

Gary Aguiar RCE 34262

Bruce Hageman

TABLE 1.

Shallow Groundwater Sampling Results

Well	Date	TPH as Diesel (ug/L)	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
MW-1	11-13-91 02-26-91 05-16-91 08-19-91	840 ND 220 480	ND ND ND 260	ND ND ND 0.6	ND ND ND ND	ND ND ND 0.7	ND ND ND 3.#
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. C'L/	<u> </u>		Page of
Site Location 50	INOL, CA	_	Date 8-19-91
Well No. MU -	<u>·1</u>		
	1DY, 650 1	Time Samplin	ompleted $\frac{1130}{1230}$
	EVACUATIO		
Description of Meas	uring Point (MP) <u>l</u>	CELL BOX	X/AT GRADE
Total Sounded Depth	of Well Below MP	420	
			er of Casing $\frac{2^{ll}}{}$
Wate	er Column in Well $3/$	45	
	Gallons in Well	5.15 Gallons Prior s	s Pumped/Bailed to Sampling <u>18</u>
Evacuation Method	TEFLON		
9	AMPLING DATA / I	FIFIN PARAMETE	· RS
	•		.no
•	Odor _		
			ure 18.5 °F 10c
	(umhos/cm) <u>875</u>		
Sampling Method and	Material TET	LON B	AILER
FIELD ANALYSES:	Start	Mid	End
Time	11:38	12:00	12:30
Temperature	<u> 18.0</u>	18.5	18.5
Conductivity	900	875	875
рн	7.08	7.08	7.07
	1/ • 1/		
Sampling Personnel _	fects	2 Jan	
			,

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER

5 DAYS TURNAROUND

CHROMALAB, INC.

Analytical Laboratory (E694)

August 30, 1991

ChromaLab File No.: 0891168

HAGEMAN-AGUIAR, INC.

Attn: Keith Jay

RE: One water sample for Gasoline/BTEX and Diesel analyses

Project Name: Jim O'Laughlin Project Location: Sunol, CA

Date Sampled: August 19, 1991

Date Extracted: August 29, 1991

Date Analyzed: August 29, 1991

RESULTS:

Sample I.D.	Gasoline (µg/l)	Diesel (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl Benzene (µg/l)	Total Xylenes (μg/l)
MW-1	260	480	0.6.	N.D.	0.7	3.1
BLANK SPIKE REC. DET. LIMIT	N.D. 83.0% 50	N.D. 92.7% 50	N.D. 87.4% 0.5	N.D. 86.65 0.5	N.D. 87.9% 0.5	N.D. 87.7% 0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602

ChromaLab, Inc.

David Duong Chief Chemist Eric Tam

Laboratory Director

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS: ALICHILIA				2	HAGEMAN - AG 3732 Mt. Diablo B Lafayette, CA 945 (415)284-1661 (4	ANALYSIS REQUESTED									
CROSS REFERENCE NUMBER	DATE	TIME	S O I L	W A T E R	STATION LOCA	TION	j p				//	/	RE	MARK	(S
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RELINQUISHED BY	: (Signature)	2	20	nes	DATE 5-19	9/ RECEIVED BY: (Signa									7-19-91
RELINQUISHED BY: (Signature)			TIME 15-4	RECEIVED BY: (Signature)						IME ATE	3:40				
The construction (organization)			TIME								1	IME			
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					TIME		<u> </u>						TIME		
RELINQUISHED BY: (Signature)				DATE	RECEIVED FOR LABORATORY BY: (Signature)					li i	DATE TIME				
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