

HAGEMAN-AGUIAR, INC.

Underground Contamination Investigations
Groundwater Consultants, Environmental Engineering

revised
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Lafayette, California 94549
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May 31, 1991

QUARTERLY GROUNDWATER SAMPLING REPORT

FORMER CHEVRON STATION
11727 Main Street
Sunol, CA

On May 16, 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 May 16, 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,

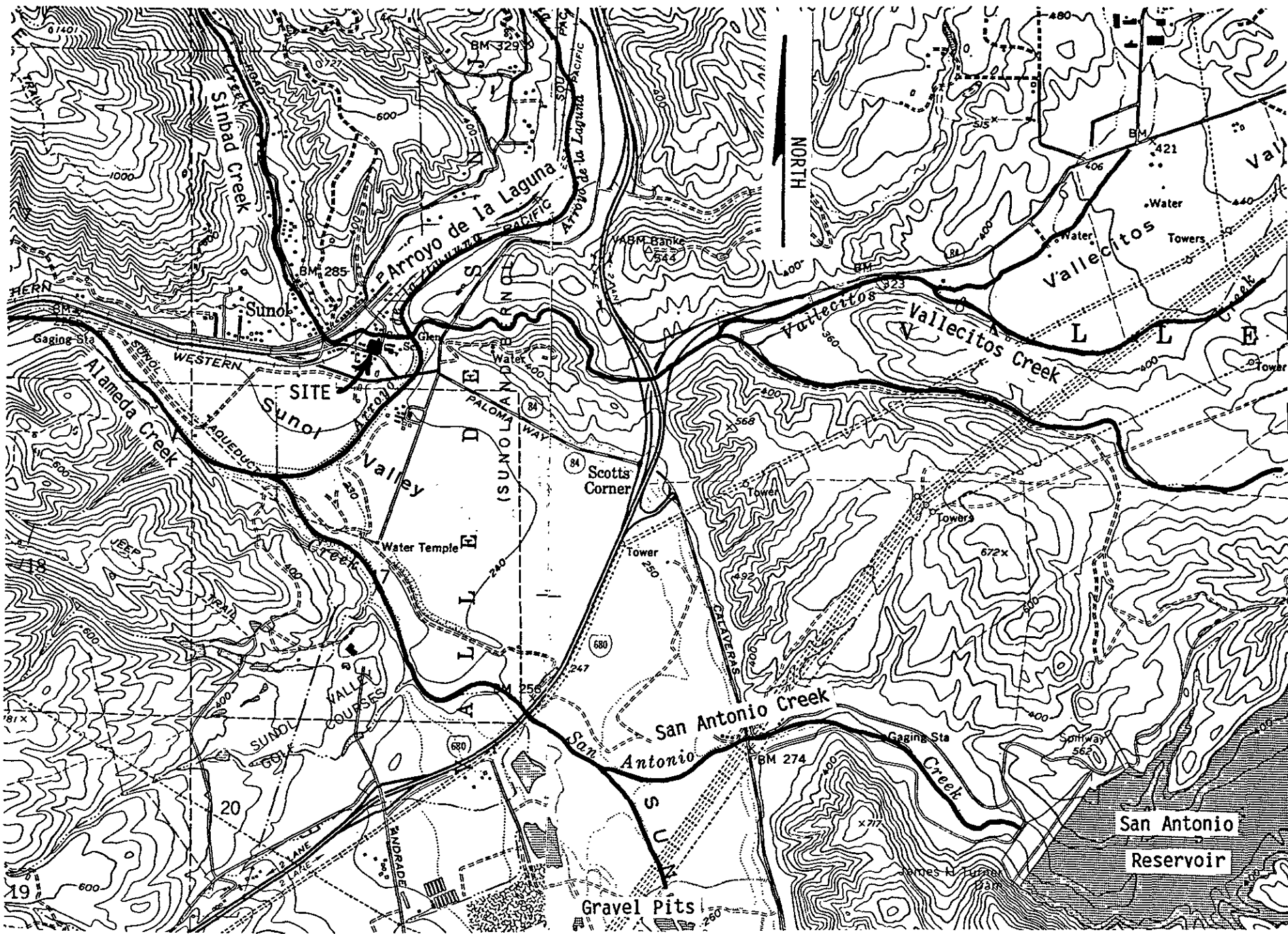


FIGURE 1. Site Vicinity Map

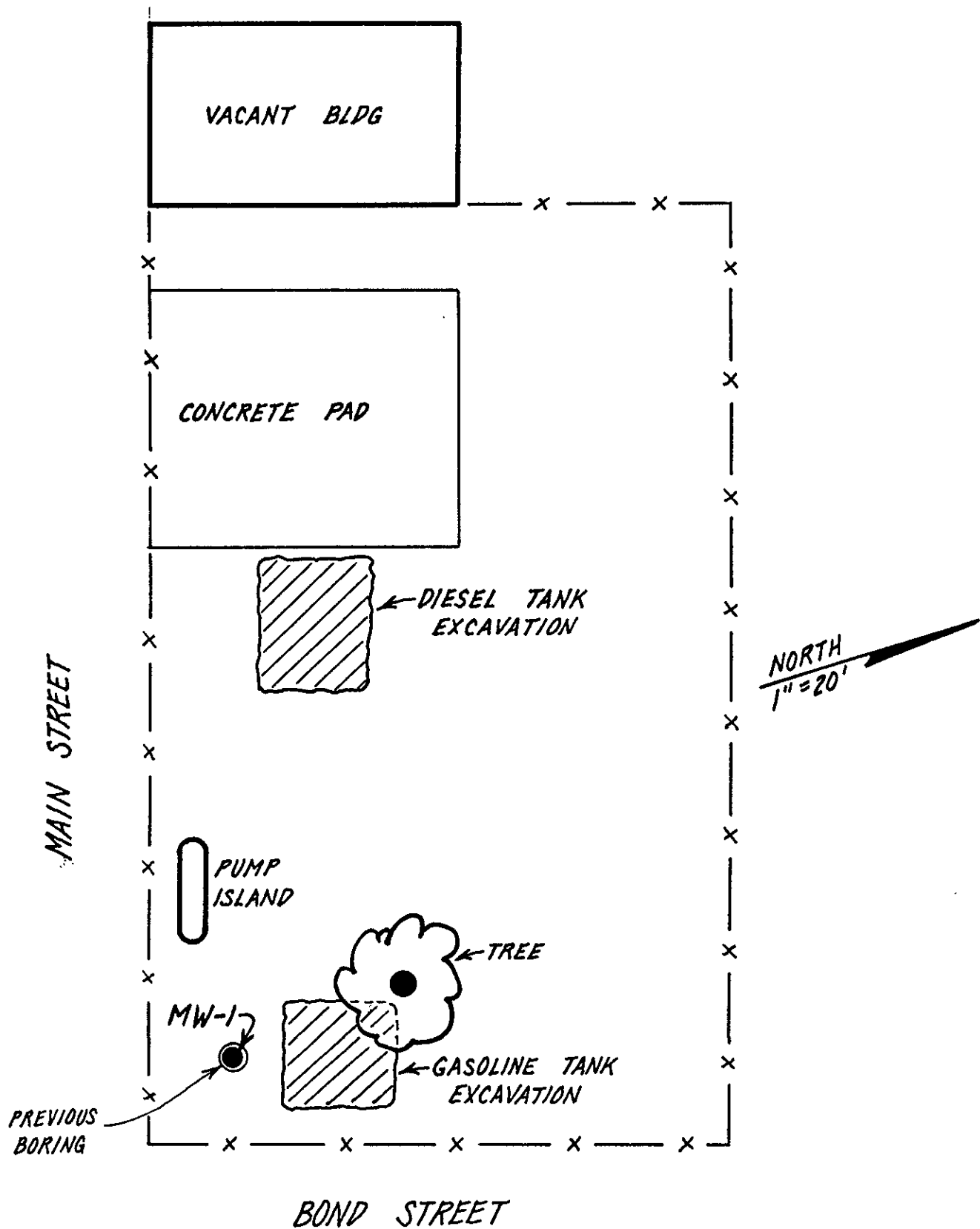


FIGURE 2.
 Location of Shallow Groundwater
 Monitoring Well MW-1.

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 BTXE.

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 sewerage 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 BTX of the groundwater sample collected from monitoring well MW-1. As shown in this table, the shallow groundwater sample showed 220 ug/L (ppb) of dissolved Diesel. It should be noted that concentrations of Gasoline, Benzene, Toluene, Ethylbenzene, or Xylenes have never been detected in groundwater samples collected from monitoring well MW-1.

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



Gary Aguiar

RCE 34262

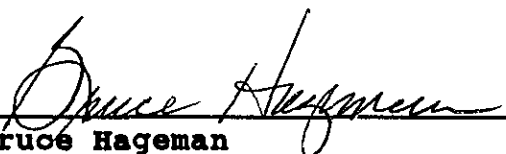

Bruce Hageman

TABLE 1.

Shallow Groundwater Sampling Results

Well	Date	Diesel (ug/L)	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)
MW-1	11-13-91	840	ND	ND	ND	ND	ND
	02-26-91	ND	ND	ND	ND	ND	ND
	05-16-91	220	ND	ND	ND	ND	ND
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. O'LAUGHLIN Page 1 of 1
Site Location SUNOL, CA Date 5-16-91
Well No. MW-1 Time Sampling Began 15:00
Weather SUNNY, 60°F Completed 16:40

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (AT GRADE)
Total Sounded Depth of Well Below MP 65.10
Depth to Water Below MP 29.50 Diameter of Casing 2"
Water Column in Well 35.60
Gallons in Well 6.0 Gallons Pumped/Bailed Prior to Sampling 20
Evacuation Method TEFLON BAWLER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NO ODOR
Appearance NO SHEEN Temperature 21 °F / (°C)
Specific Conductance (umhos/cm) 850 pH 7.05
Sampling Method and Material TEFLON BAWLER

FIELD ANALYSES:	Start	Mid	End
Time	<u>15:00</u>	<u>15:20</u>	<u>16:35</u>
Temperature	<u>22°</u>	<u>21°</u>	<u>21°</u>
Conductivity	<u>950</u>	<u>850</u>	<u>850</u>
pH	<u>6.94</u>	<u>7.09</u>	<u>7.05</u>

Sampling Personnel Keith Jay

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

May 29, 1991

ChromaLab File No.: 0591098

HAGEMAN-AGUIAR, INC.

Attn: Keith JayRE: One water sample for Gasoline/BTEX, and Diesel analyses

Project Name: JIM O'LAUGHLIN

Date Sampled: May 16, 1991

Date Submitted: May 16, 1991

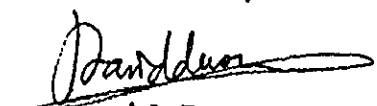
Date Extracted: May 24-28, 1991


Date Analyzed: May 24-28, 1991

RESULTS:

Sample NO.	Gasoline ($\mu\text{g/l}$)	Diesel ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl Benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)
MW-1	N.D.	220	N.D.	N.D.	N.D.	N.D.
BLANK SPIKED	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RECOVERY	90.3%	94.5%	82.3%	95.1%	90.8%	92.0%
DETECTION LIMIT	50	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602

CHROMALAB, INC.


 David Duong
 Senior Chemist


 Eric Tam
 Laboratory Director

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS: JIM O'LAUGHLIN SUNOL, CA					SAMPLER: (Signature) <i>Keith Jay</i> HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)		ANALYSIS REQUESTED <i>TPH - GGD BIEX</i>				
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	REMARKS					
MW-1	5-16-91	16:40		X	MONITOR WELL # 1	X	X				10 DAY TA
RELINQUISHED BY: (Signature) <i>Keith Jay</i>					DATE 5-16-91	RECEIVED BY: (Signature) <i>GR Coetz</i>					DATE 5-16-91
RELINQUISHED BY: (Signature)					TIME 17:25	RECEIVED BY: (Signature)					TIME 17:25
RELINQUISHED BY: (Signature)					DATE _____	RECEIVED BY: (Signature)					DATE _____
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