

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

June 12, 1992

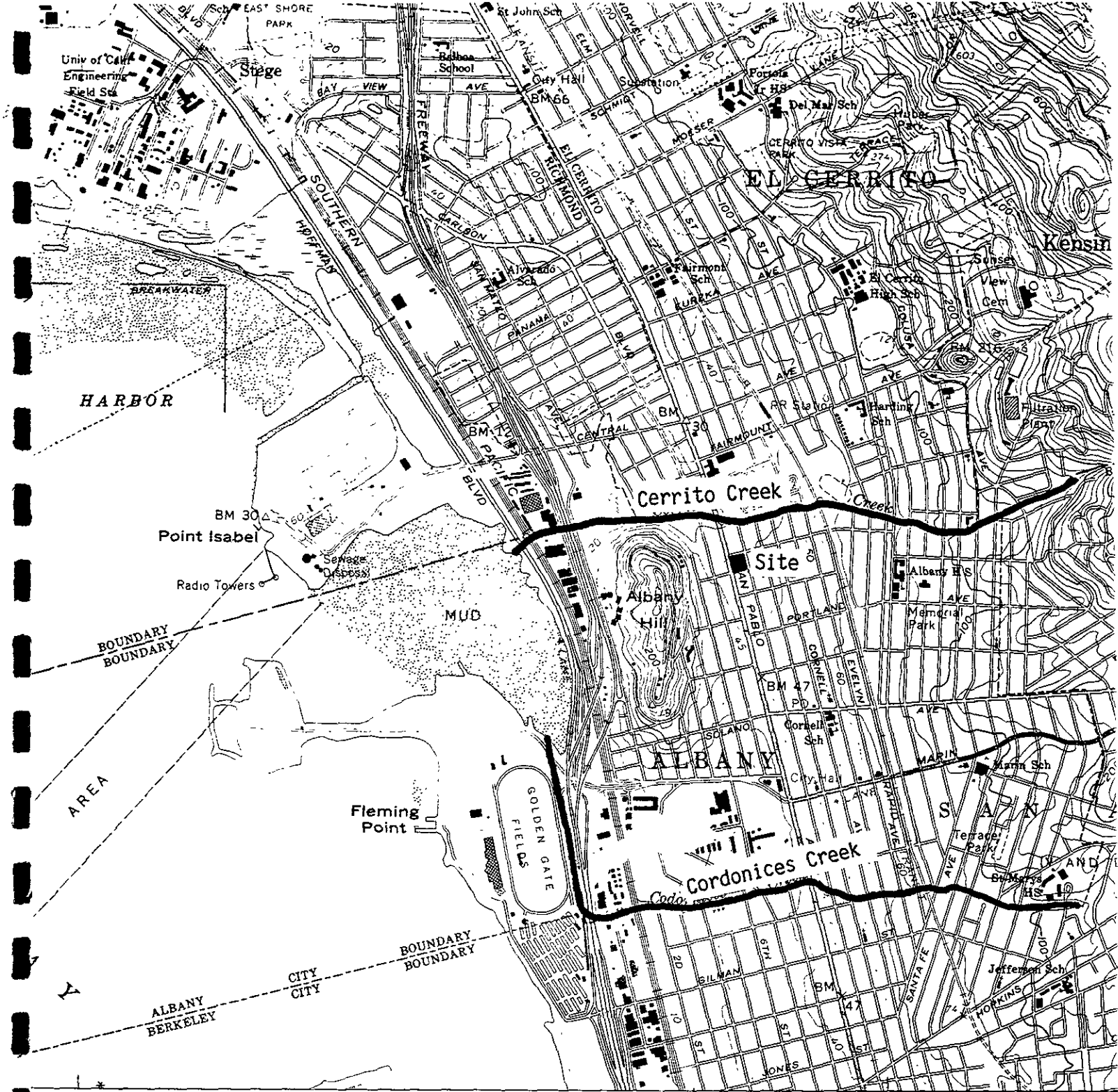
REPORT OF QUARTERLY GROUNDWATER SAMPLING

GRANHOLT SHEET METAL
501 SAN PABLO AVENUE
ALBANY, CA

On May 28, 1992, the one on-site monitoring well was sampled for the laboratory analysis for dissolved petroleum constituents. The location of the site is shown in Figure 1 (site location map).

Monitoring Well Sampling and Laboratory Analysis

On May 28, 1992, the one on-site well was purged, and groundwater samples were 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 approximately 5 casing volumes of water. Field conductivity, 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



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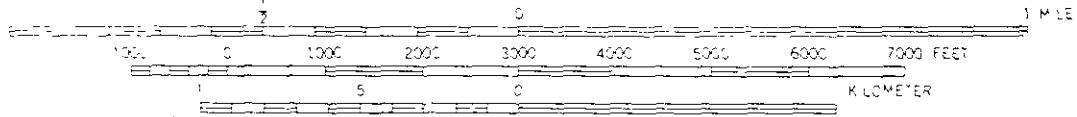


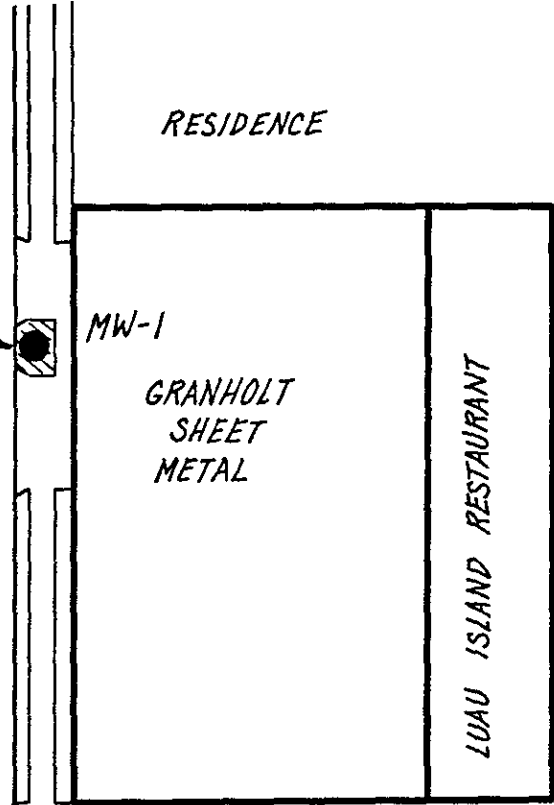
Figure 1.
Site Location Map.

TIRE CENTER



FORMER
TANK
LOCATION

BRIGHTON AVENUE



SAN PABLO AVENUE



FIGURE 2.
Site Map.

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. All groundwater samples were analyzed for Total Petroleum Hydrocarbons as Gasoline, and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

Laboratory Results.

Table 1 presents the results of the laboratory analysis for TPH and BTXE of the groundwater samples collected from monitoring well MW-1.

For this round of sampling, dissolved Gasoline was detected in the one shallow groundwater sample at a concentration of 1,000 ug/L (ppb). In addition, dissolved Benzene, Toluene, Ethylbenzene, and Total Xylenes were detected at concentrations of 4.2 $\mu\text{g/L}$ (ppb), 5.1 $\mu\text{g/L}$ (ppb), 15 $\mu\text{g/L}$

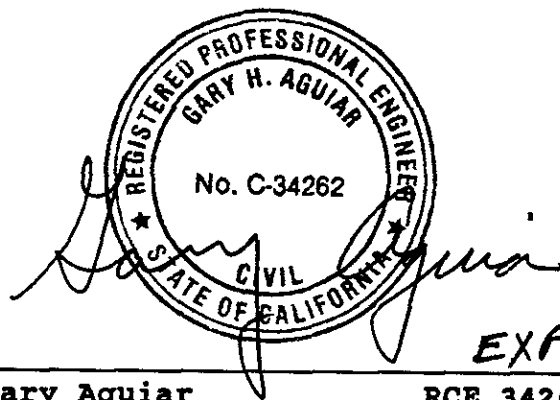
Table 1.

Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
MW-1	06-12-90	770	3.0	ND	3.0	4.0
	02-01-91	740	92	7.0	2.7	3.2
	06-03-91	ND	ND	ND	ND	ND
	12-17-91	560	8.3	11	8.1	61
	03-06-92	700	6.0	9.9	22	40
	05-28-92	1,000	4.2	5.1	15	30
Detection Limit		50	0.5	0.5	0.5	0.5

(ppb) and 30 µg/L (ppb), respectively.

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



EXP. 9-30-95

Gary Aguiar

RCE 34262

Bruce Hageman
Bruce Hageman

ATTACHMENT A

WELL SAMPLING LOG

WELL SAMPLING LOG

Project/No. GRANHOLT SHEET METAL Page 1 of 1
 Site Location SAN PABLO AVE, ALBANY Date 5/28/92
 Well No. MW1 Time Began 1430
 Weather PT. CLOUDY / 75°F Completed 1515

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE
 Total Sounded Depth of Well Below MP 12.02
 - Depth to Water Below MP 3.14 Diameter of Casing 2"
 = Water Column in Well 8.88
 Gallons in Casing 1.4 + Annular Space 5.6 = Total Gallons 7
 (30% porosity)
 Gallons Pumped Prior to Sampling 30
 Evacuation Method HAND BAILED w/ ACRYLIC BAILER

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: NO APPARENT PRODUCT
 (thickness to 0.1 inch, if any)

	<u>1430</u>	<u>1437</u>	<u>1447</u>	<u>1501</u>	<u>1506</u>
Time	<u>1430</u>	<u>1437</u>	<u>1447</u>	<u>1501</u>	<u>1506</u>
Gals Removed	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>30</u>
Temperature	<u>22.2</u>	<u>19.4</u>	<u>19.4</u>	<u>19.6</u>	<u>19.2</u>
Conductivity	<u>4500</u>	<u>5000</u>	<u>5000</u>	<u>5000</u>	<u>5000</u>
pH	<u>7.6</u>	<u>7.7</u>	<u>7.9</u>	<u>8.0</u>	<u>8.0</u>
Color / Odor	<u>CLR/NO</u> <small>LOW</small>	<u>BRN/NO</u>	<u>BRN/HC</u> <small>LT.</small>	<u>BRN/NO</u>	<u>BRN/ORG</u>
Turbidity	<u>CLR</u>	<u>MED</u>	<u>MED</u>	<u>MED</u>	<u>MED</u>

Comments: WATER IN BOX AT CAP SEAL POINT.

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

June 01, 1992

PEL # 9205040

HAGEMAN - AGUIAR

Attn: Jeffrey Roth

Re: One water sample for Gasoline/BTEX analysis.

Project name: Granholt Sheet Metal

Project location: San Pablo Ave.-Richmond

Date sampled: May 28, 1992

Date submitted: May 29, 1992

Date extracted: May 30, 1992

Date analyzed: May 30, 1992

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	1000	4.2	5.1	15	30
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	90.1%	98.4%	102.6%	95.8%	107.1%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602

David Duong
Laboratory Director

PEL # 9205040

INV # 22829

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS <i>GRANHOLT SHEET METAL</i> <i>SAN PABLO AVE.</i> <i>RICHMOND</i>				SAMPLER: (Signature) <i>[Signature]</i>		ANALYSIS REQUESTED <i>Pres. w/ HCL</i> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <i>TPH GAS</i> <i>TOXIC</i>							
				HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)		REMARKS							
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION								
<i>MW 1</i>	<i>5/28/92</i>	<i>1515</i>		<input checked="" type="checkbox"/>	<i>GRANHOLT</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<i>(Norm TAT)</i>
RELINQUISHED BY (Signature) <i>[Signature]</i>				DATE TIME	<i>5/29/92</i>	RECEIVED BY: (Signature)						DATE TIME	
RELINQUISHED BY (Signature)				DATE TIME		RECEIVED BY: (Signature)						DATE TIME	
RELINQUISHED BY (Signature)				DATE TIME		RECEIVED BY: (Signature)						DATE TIME	
RELINQUISHED BY (Signature)				DATE TIME		RECEIVED FOR LABORATORY BY: (Signature) <i>[Signature]</i>						DATE TIME	
												<i>5/29/92</i> <i>7:46</i>	