



HAGEMAN-AGUIAR, INC.

Underground Contamination Investigations, Groundwater Consultants, Environmental Engineering

March 16, 1994

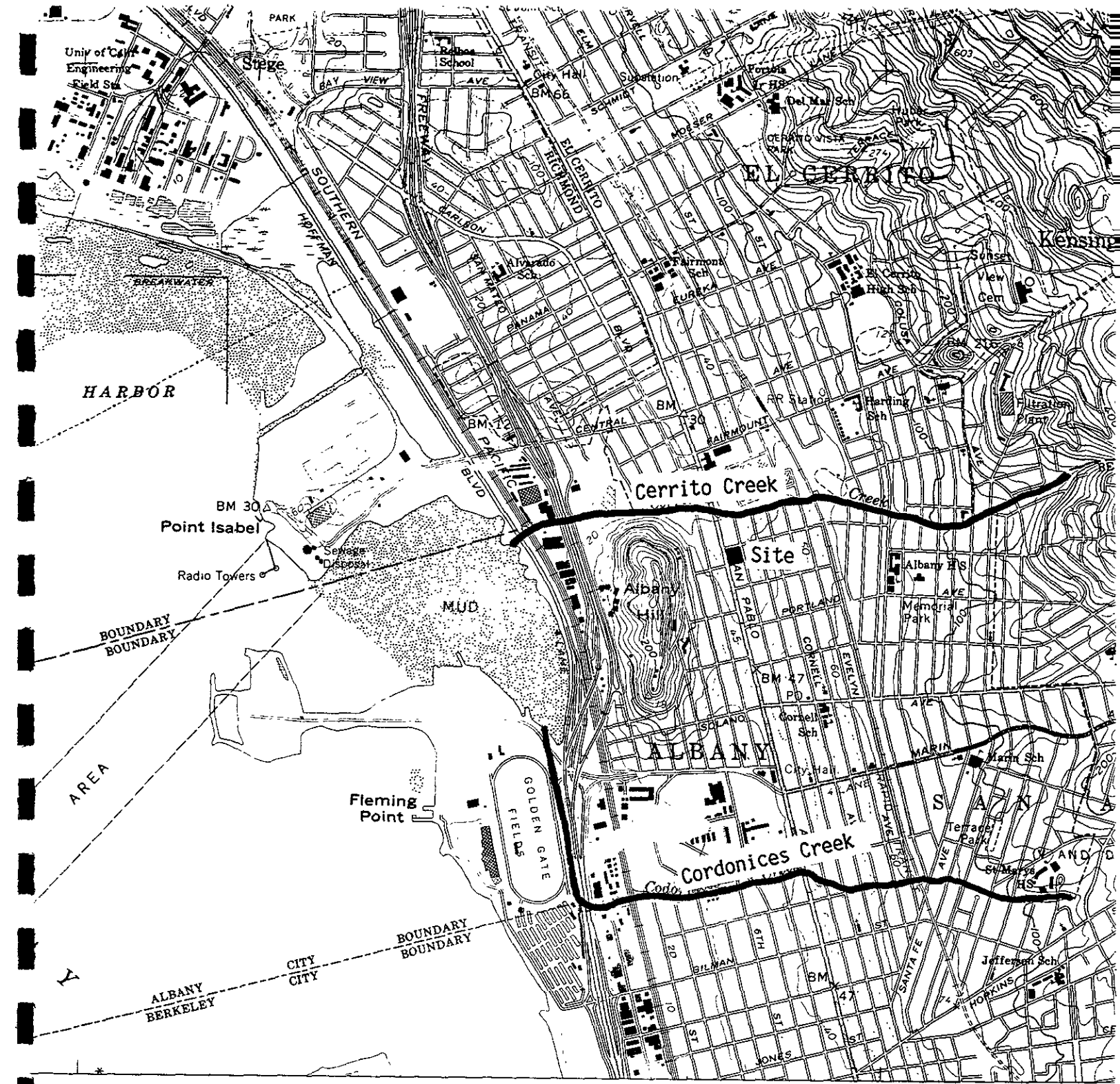
**REPORT OF
QUARTERLY GROUNDWATER SAMPLING**

**GRANHOLT SHEET METAL
501 San Pablo Avenue
Albany, CA**

On March 11, 1994, 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 March 11, 1994, 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 several casing volumes of water. Field conductivity, temperature, and pH parameters were recorded during the purging process. As the well purging 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



SCALE 1:24 000

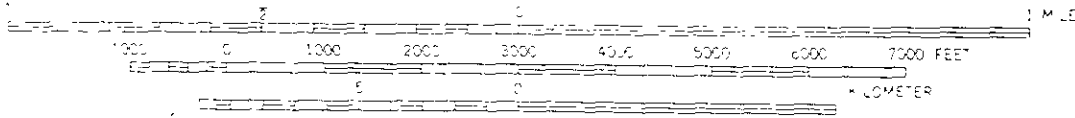


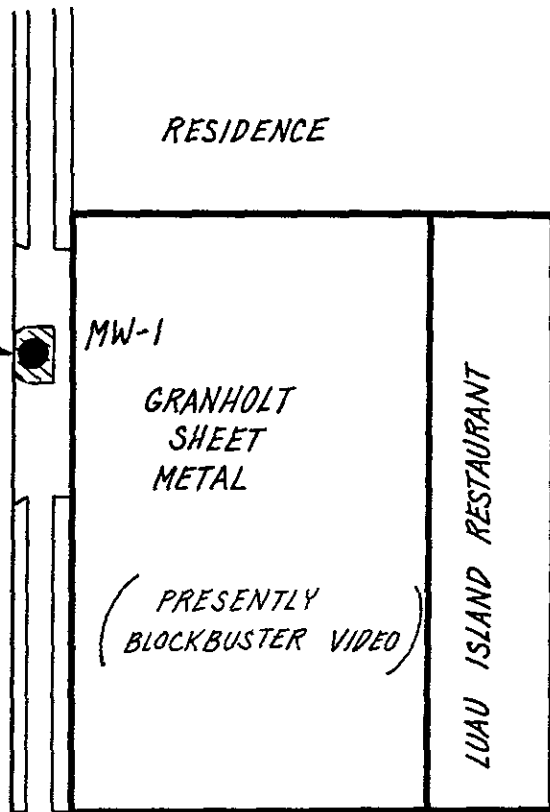
Figure 1.
Site Location Map.

TIRE CENTER



FORMER
TANK
LOCATION

BRIGHTON AVENUE



SAN PABLO AVENUE



FIGURE 2.
Site Map.

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).

Water Level Measurement

The shallow groundwater elevation in MW-1 was measured as 5.20 feet below ground surface on March 11, 1994.

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

Table 1.
Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (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
	08-31-92	1,600	13	12	27	57
	12-07-92	4,900	12	16	35	130
	03-22-93	3,900	8.2	8.5	17	42
	06-04-93	1,600	0.9	1.6	1.8	4.2
	09-24-93	1,400	3.3	3.7	7.3	17
	12-15-93	1,400	1.8	2.0	4.8	17
	03-11-94	670	5.0	4.9	2.7	30
Detection Limit		50	0.5	0.5	0.5	0.5


ND = not detected

in the shallow groundwater sample at a concentration of 670 $\mu\text{g/L}$ (ppb). In addition, dissolved Benzene, Toluene, Ethylbenzene, and Total Xylenes were detected at concentrations of 5.0 $\mu\text{g/L}$ (ppb), 4.9 $\mu\text{g/L}$ (ppb), 2.7 $\mu\text{g/L}$ (ppb) and 30 $\mu\text{g/L}$ (ppb), respectively.

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

REPORT OF QUARTERLY GROUNDWATER SAMPLING
GRANHOLT SHEET METAL
501 San Pablo Avenue, Albany, CA

March 16, 1994



EXP. 9-30-95

Gary Aguiar

RCE 34262

Gerard F. Aarons 3-16-94

Gerard F. Aarons

Geologist

ATTACHMENT A

WELL SAMPLING LOG

WELL SAMPLING LOG

Project/No. GRANHOLT SHEET METAL Page 1 of 1
 Site Location ALBANY, CA Date 3/11/94
 Well No. MW 1 Time Began 1120
 Weather CLEAR / 75°F Completed 1305

EVACUATION DATA

Description of Measuring Point (MP) Well Box At GRADE
 Total Sounded Depth of Well Below MP 14.91 Diameter of Casing 2"
 - Depth to Water Below MP 5.02
 = Water Column in Well 9.89
 Gallons in Casing 1.6 + Annular Space 6.2 = Total Gallons 7.8
 (30% porosity)
 Gallons Pumped Prior to Sampling 30
 Evacuation Method PVC BAILER

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: NONE DETECTED
 (thickness to 0.1 inch, if any)

	<u>1120</u>	<u>1148</u>	<u>1220</u>	<u>1255</u>
Time				
Gals Removed	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>
Temperature	<u>19.5</u>	<u>18.3</u>	<u>18.5</u>	<u>17.9</u>
Conductivity	<u>1500</u>	<u>2200</u>	<u>3400</u>	<u>3500</u>
pH	<u>7.1</u>	<u>7.0</u>	<u>6.9</u>	<u>7.0</u>
Color / Odor	<u>clr/ORG</u>	<u>BRN/Hc</u>	<u>BRN/Hc</u>	<u>BRN/Hc</u>
Turbidity	<u>LOW</u>	<u>HIGH</u>	<u>HIGH</u>	<u>HIGH</u>

Comments: NONE

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

March 15, 1994

PEL # 9403042

HAGEMAN - AGUIAR, INC.

Attn: Jeffrey Roth

Re: One water sample for Gasoline/BTEX analysis.

Project name: Granholt Sheet Metal

Project location: San Pablo Ave., - Albany, CA.

Date sampled: Mar 11, 1994

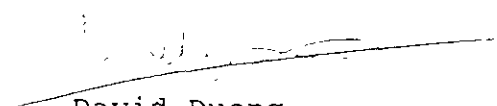
Date submitted: Mar 14, 1994

Date extracted: Mar 14, 1994

Date analyzed: Mar 14, 1994

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	670	5.0	4.9	2.7	30
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	92.9%	94.7%	98.4%	93.3%	89.0%
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 # 9403042

INV # 24562

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS <i>GRANNOLT SHEET METAL</i> <i>SAN PABLO AVE.</i> <i>ALBANY, CA</i>					SAMPLER: (Signature) <i>[Signature]</i>		ANALYSIS REQUESTED <i>TPH GAS / BENE</i>					
					HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)							
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION						REMARKS	
<i>MW 1</i>	<i>3/14/94</i>	<i>1305</i>		<i>X</i>	<i>MONITOR WELL # 1</i>	<i>X</i>						<i>Norm TAT</i>
RELINQUISHED BY: (Signature) <i>[Signature]</i>					DATE TIME	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	

3/14/94
9:30 AM