

HAGEMAN-AGUIAR, INC.

*Underground Contamination Investigations
Groundwater Consultants, Environmental Engineering*

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September 3, 1992

REPORT OF QUARTERLY GROUNDWATER SAMPLING

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

On August 31, 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 August 31, 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 several 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 stabilized. After the

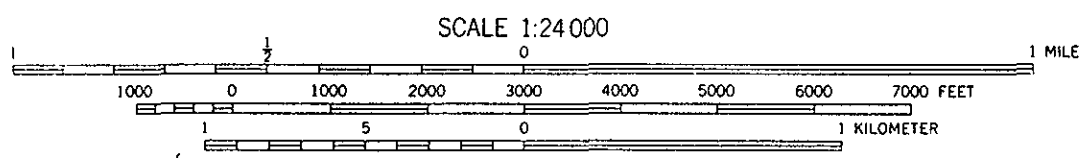
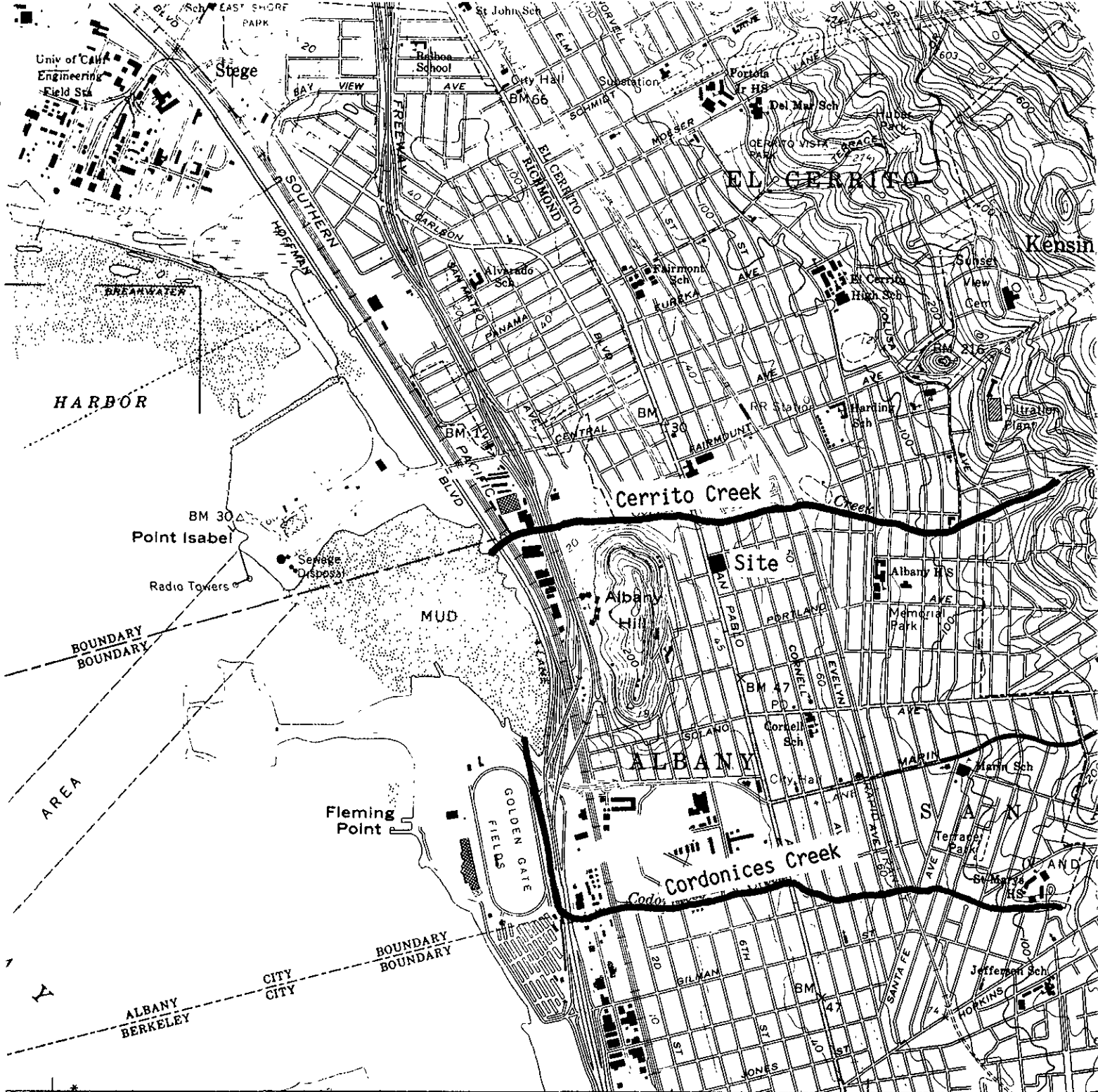


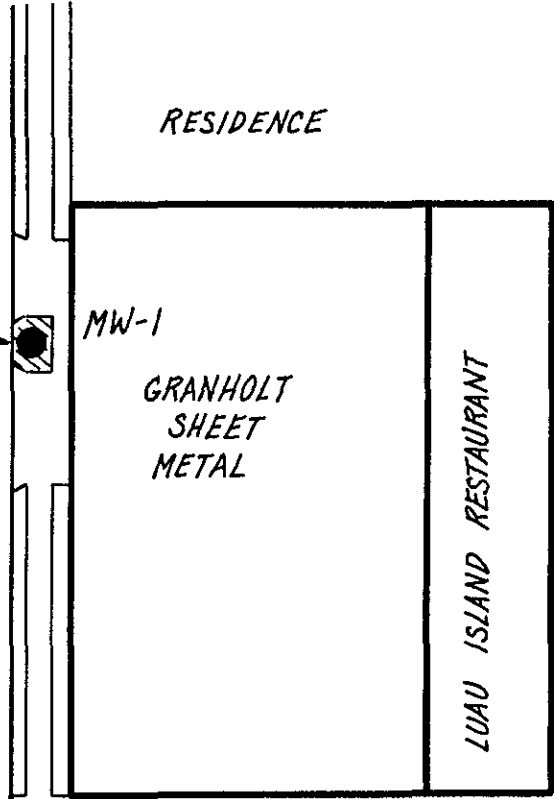
Figure 1.
Site Location Map.

TIRE CENTER



FORMER
TANK
LOCATION

BRIGHTON AVENUE



SAN PABLO AVENUE



FIGURE 2.
Site Map.

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).

Water Level Measurement.

The shallow groundwater elevation in MW-1 was measured as 3.29 feet below ground surface on August 31, 1992.

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 1,600 ug/L (ppb). In addition, dissolved Benzene, Toluene, Ethylbenzene, and Total Xylenes were detected at concentrations of 13 $\mu\text{g/L}$ (ppb), 12 $\mu\text{g/L}$ (ppb), 27 $\mu\text{g/L}$ (ppb) and 57 $\mu\text{g/L}$ (ppb), respectively.

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

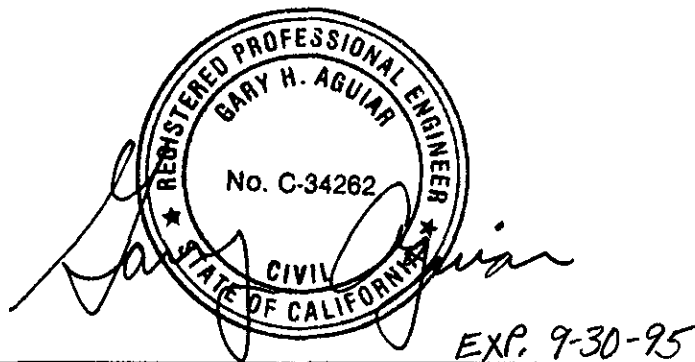
Table 1.

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
	08-31-92	1,600	13	12	27	57
Detection Limit		50	0.5	0.5	0.5	0.5

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GRANHOLT SHEET METAL
501 San Pablo Avenue, Albany, CA

September 3, 1992



Gary Aguiar

RCE 34262



Bruce Hageman

ATTACHMENT A

WELL SAMPLING LOG

WELL SAMPLING LOG

Project/No. GRANTHOLT
 Site Location RICHMOND, CA
 Well No. MW 1
 Weather CLEAR / 75 OF

Page 1 of 1

Date 8/31/92

Time Began 1335
 Completed 1410

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE

Total Sounded Depth of Well Below MP 11.90

- Depth to Water Below MP 3.29

Diameter of Casing 2'

= Water Column in Well 8.61

Gallons in Casing 1.4 + Annular Space 5.3 = Total Gallons 6.7
(30% porosity) x 4 = 26.8

Gallons Pumped Prior to Sampling 27

Evacuation Method ACRYLIC HAND BAILER

SAMPLING DATA / FIELD PARAMETERS

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

	<u>1335</u>	<u>1345</u>	<u>1352</u>	<u>1401</u>
Time	<u>1335</u>	<u>1345</u>	<u>1352</u>	<u>1401</u>
Gals Removed	<u>0</u>	<u>10</u>	<u>18</u>	<u>27</u>
Temperature	<u>23.4</u>	<u>24.5</u>	<u>23.1</u>	<u>23.3</u>
Conductivity	<u>500</u>	<u>650</u>	<u>650</u>	<u>650</u>
pH	<u>7.3</u>	<u>7.5</u>	<u>7.7</u>	<u>7.7</u>
Color / Odor	<u>CLR/NO</u>	<u>CLR/NO</u>	<u>CLR/NO</u>	<u>CLR/NO</u>
Turbidity	<u>LOW</u>	<u>LOW</u>	<u>LOW</u>	<u>LOW</u>

Comments: NONE

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

September 01, 1992

PEL # 9209001

HAGEMAN - AGUIAR, INC.

Attn: Gary Aguiar

Re: One water sample for Gasoline/BTEX analysis.

Project name: Granholt Sheet Metal

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

Date sampled: Aug 31, 1992

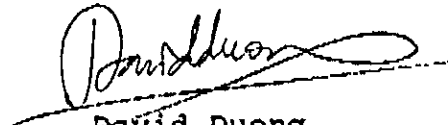
Date submitted: Sep 01, 1992

Date extracted: Sep 01, 1992

Date analyzed: Sep 01, 1992

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	1600	13	12	27	57
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	95.9%	96.8	100.7%	103.3%	97.2%
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 # 9209001

INV # 23041

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS: <u>GRANHOLT SHEET METAL</u> <u>SAN PABLO AVE.</u> <u>RICHMOND, CA</u>				SAMPLER: (Signature) <u>[Signature]</u>		ANALYSIS REQUESTED <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)								
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION						REMARKS	
MW 1	8-31-92	1410		X	MONITORING WELL	X	X					NORM TAT
RELINQUISHED BY: (Signature) <u>[Signature]</u>				DATE	<u>9/1/92</u>	RECEIVED BY: (Signature)					DATE	_____
RELINQUISHED BY: (Signature)				TIME	<u>0740</u>	RECEIVED BY: (Signature)					DATE	_____
RELINQUISHED BY: (Signature)				DATE	_____	RECEIVED BY: (Signature)					DATE	_____
RELINQUISHED BY: (Signature)				TIME	_____	RECEIVED BY: (Signature)					TIME	_____
RELINQUISHED BY: (Signature)				DATE	_____	RECEIVED FOR LABORATORY BY: (Signature) <u>[Signature]</u>					DATE	<u>09/01/92</u>
RELINQUISHED BY: (Signature)				TIME	_____	RECEIVED FOR LABORATORY BY: (Signature)					TIME	<u>7:55 AM</u>