HAGEMAN-AGUIAR, INC.
Underground Contamination Investigations, Groundwater Consultants, Environmental Engineering

June 10, 1993

REPORT OF
QUARTERLY GROUNDWATER SAMPLING

GRANHOLT SHEET METAL
501 San Pablo Avenue
Albany, CA

1756
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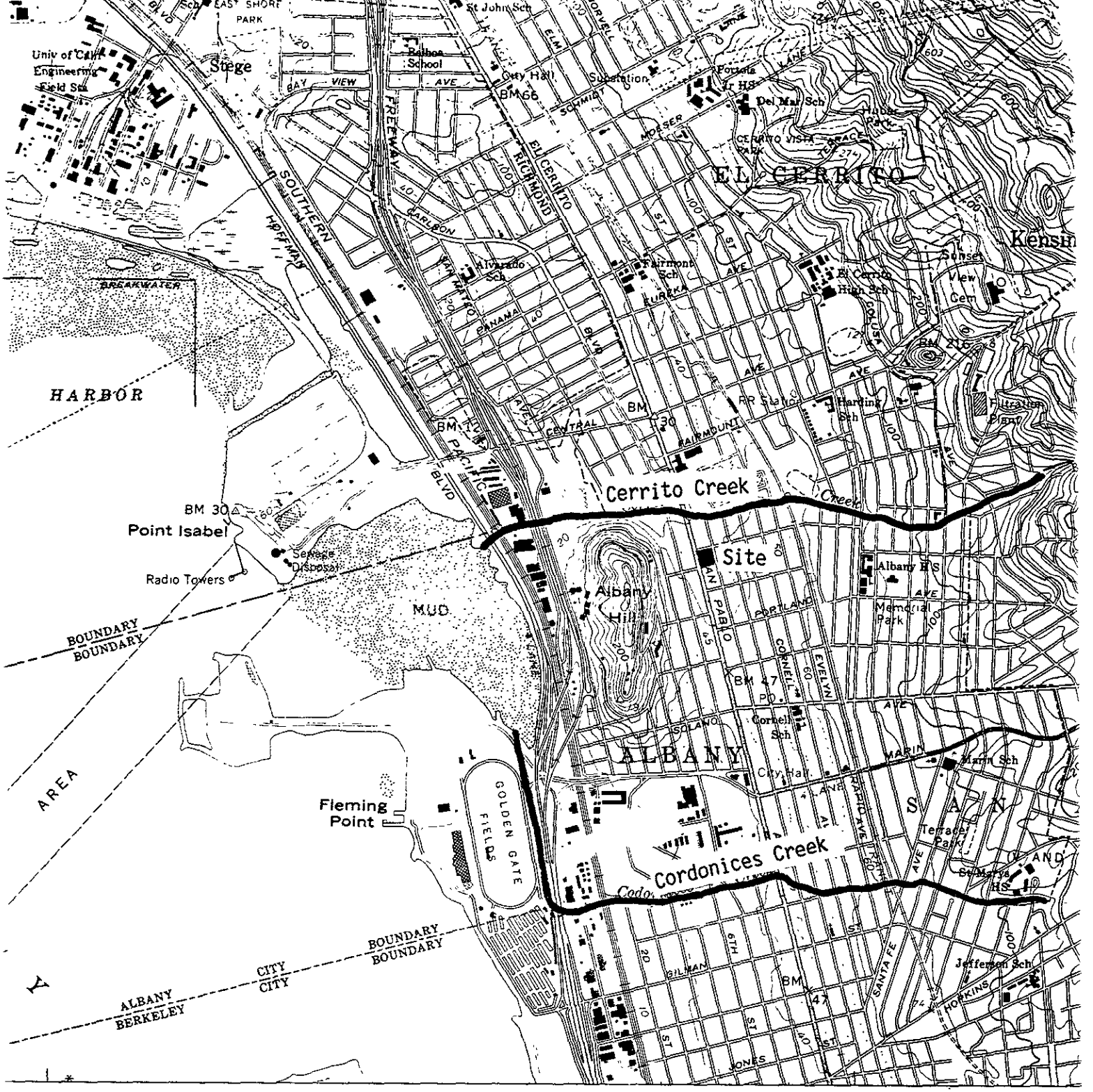
On June 4, 1993, the one on-site monitoring well was sampled for the laboratory analysis for dissolved petroleum constituents. The location of the site is shown in Figure 1 (site location map).

Monitoring Well Sampling and Laboratory Analysis

On June 4, 1993, 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

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



SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

Figure 1.

Site Location Map.

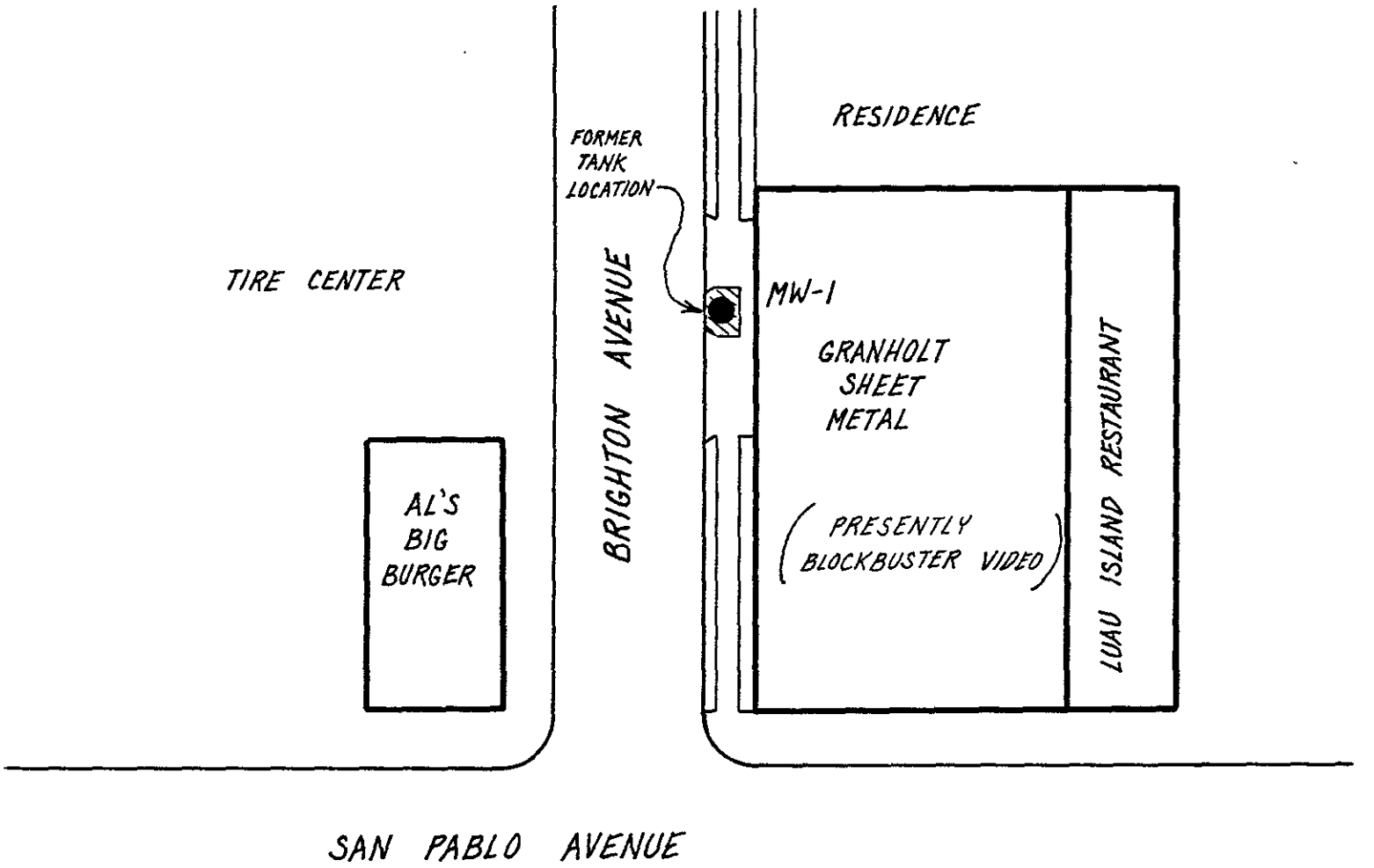


FIGURE 2.
Site Map.

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 9.54 feet below ground surface on June 4, 1993.

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 µg/L (ppb). In addition, dissolved Benzene, Toluene, Ethylbenzene, and Total Xylenes were detected at concentrations of 0.9 µg/L (ppb), 1.6 µg/L (ppb), 1.8 µg/L (ppb) and 4.2 µg/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)	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
Detection Limit		50	0.5	0.5	0.5	0.5

ND = not detected

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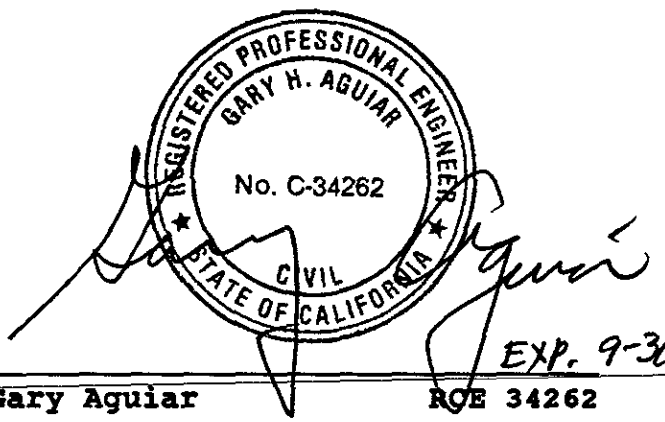

EXP. 9-30-95

Gary Aguiar **RCE 34262**

Rick Milelli **Env. Engineer**

ATTACHMENT A

Well Sampling Log

WELL SAMPLING LOG

Project/No. GRANHOLT

Site Location SAN PABLO AVE. RICHMOND, CA

Page 1 of 1

Date 6-4-93

Well No. MW 1

Weather FT. RAIN / 60°F

Time Began 1125

Completed 1215

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE

Total Sounded Depth of Well Below MP 12.10

- Depth to Water Below MP 9.54

= Water Column in Well 2.56

Diameter of Casing 2"

Gallons in Casing 0.41 + Annular Space (30% porosity) 1.6 = Total Gallons 2.0 (x4 = 8.0)

Gallons Pumped Prior to Sampling 8

Evacuation Method PVC BAILER

SAMPLING DATA / FIELD PARAMETERS

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

Time	1125	1130	1148	1205
Gals Removed	0	3	6	8
Temperature	18.9	18.5	18.6	18.5
Conductivity	800	700	650	600
pH	7.4	6.9	7.1	7.1
Color / Odor	CLR/HC	BRN/HC	BRN/HC	BRN/HC
Turbidity	LOW	HIGH	HIGH	HIGH

Comments: NONE

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

June 09, 1993 PEL # 9306020

HAGEMAN - AGUIAR, INC.

Attn: Jeffrey Roth
Re: One water sample for Gasoline/BTEX analysis.

Project name: Granholt Sheet Metal
Project location: San Pablo Blvd., - Albany, CA.

Date sampled: Jun 04, 1993 Date submitted: Jun 08, 1993
Date extracted: June 08, 1993 Date analyzed: Jun 08, 1993

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	1600	0.9	1.6	1.8	4.2
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	92.1%	93.5%	91.4%	92.8%	102.0%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PEL # 9306020

CHAIN OF CUSTODY RECORD

INV # 23675

PROJECT NAME AND ADDRESS
GRANT'S SHEET METAL
SAN PABLO BLVD.
ALBANY, CA

SAMPLER: (Signature)

HAGEMAN - AGUIAR, INC.
3732 Mt. Diablo Blvd., Suite 372
Lafayette, CA 94549
(415)284-1661 (415)284-1664 (FAX)

ANALYSIS REQUESTED: TPH Gas, BTXE

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION								REMARKS
MW 1	6/4/93	1215		X	MONITORING WELL #1		X	X					NORMAL

RELINQUISHED BY: (Signature)	DATE 6/8/93 TIME 1505	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)	DATE 6/8/93 TIME 15.05