

Underground Contamination Investigations, Groundwater Consultants, Environmental Engineering

December 3, 1992

GROUNDWATER SAMPLING REPORT (sampled November 9, 1992)

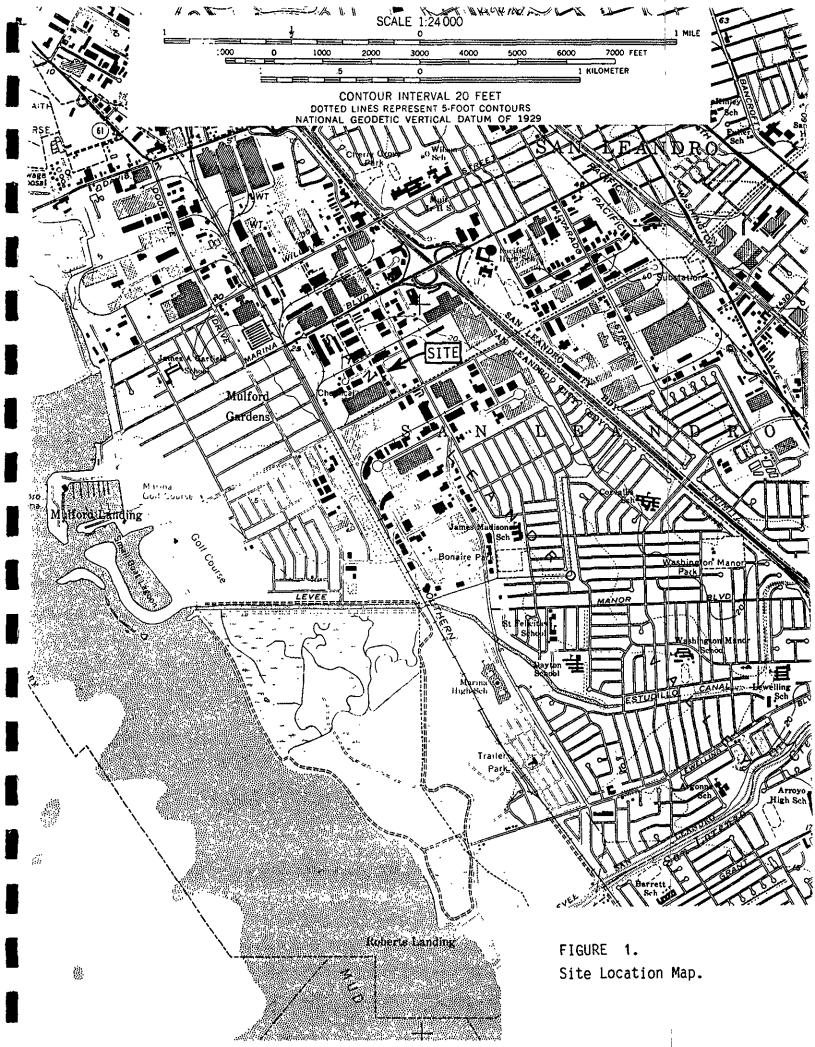
RODDING-CLEANING SERVICE 2585 Nicholson Street San Leandro, CA

#AZMAT

Introduction

The site location is the Rodding-Cleaning Service facility in San Leandro, California. The location of the site is shown in Figure 1. In conjunction with the facility operation, the site has historically operated one underground fuel storage tank and one underground waste oil storage tank for a number of years.

The two underground storage tanks were removed from the site by Scott-Broadway in 1991. At the time of the removal, four soil samples and two groundwater samples were collected from the two tank excavations. The results of the analysis of soil samples collected from the tank sidewalls indicated the presence of Diesel and Gasoline at concentrations of up to 470 mg/kg (ppm) and 1,400 mg/kg (ppm), respectively. In



addition, the results of the groundwater sample analyses indicated the presence of Total Petroleum Hydrocarbons as Gasoline at concentrations of up to 38 mg/L (ppm).

Based upon the tank removal analytical results, a soil and groundwater investigation was conducted by Hageman-Aguiar, Inc. The scope of work undertaken by Hageman-Aguiar, Inc., included 1) the conduct of a soil sampling program in order to determine the lateral extent of subsurface soil contamination surrounding the locations of the former underground storage tanks, and 2) the installation of one shallow groundwater monitoring at the perceived down-gradient location. The results of the investigation were presented in a report by Hageman-Aguiar, Inc., dated July 29, 1992.

This most recent groundwater sampling conducted on November 9, 1992, represents the first "round" of shallow groundwater monitoring at the site following the initial subsurface investigation.

Monitoring Well Sampling and Laboratory Analysis

On November 9, 1992, groundwater samples were collected from the one on-site monitoring well. The location of the monitoring well is shown in Figure 2 (site map). Prior to groundwater sampling, the well was purged by bailing approximately 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 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 and 1-liter amber bottles free of any headspace. The samples were

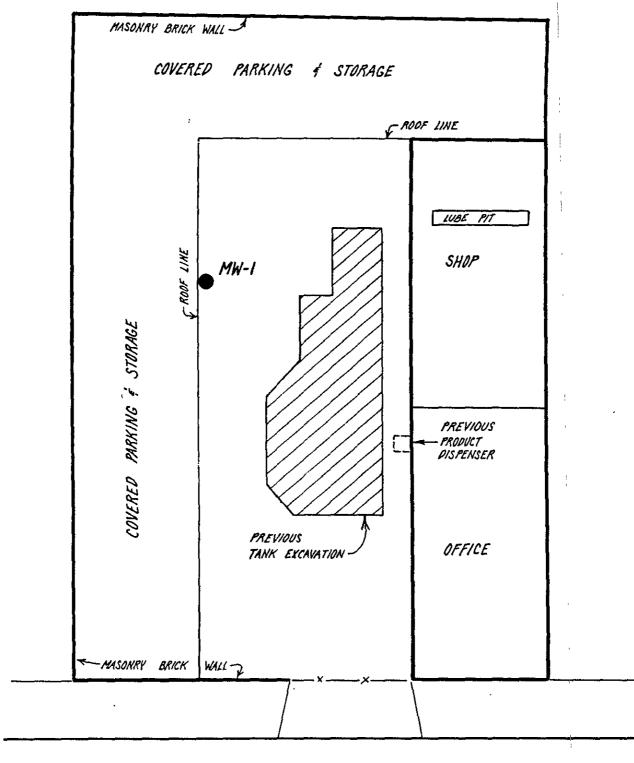




FIGURE 2. Site Map.

immediately placed on crushed 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.

Water Level Measurement.

The shallow groundwater elevation in MW-1 was measured as 6.78 feet below ground surface on November 9, 1992.

Laboratory Analysis

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 (EPA method 8015), Total Petroleum Hydrocarbons as Diesel (EPA method 8015), and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) (EPA method 602).

Laboratory Results.

Table 1 presents the results of the laboratory analysis for TPH-gas, TPH-diesel and BTEX of the groundwater sample collected from monitoring well MW-1. As shown in this table, laboratory analysis of the shallow groundwater sample indicated the presence of 9,800 μ g/L (ppb) of dissolved Gasoline in the shallow groundwater sample for this most recent round of sampling.

In addition, Benzene, Toluene, Ethylbenzene and Total Xylenes were detected in the shallow groundwater sample collected from well MW-1 at concentrations of 23 μ g/L (ppb), 14 μ g/L (ppb), 22 μ g/L (ppb) and 96 μ g/L (ppb), respectively.

As shown in Table 1, no detectable concentration of Diesel was found in the shallow groundwater sample.

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

TABLE 1.

Shallow Groundwater Sampling Results

Well	Date	TPH as Diesel (ug/L)	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
MW-1	06-08-92 11-09-92	ND ND	10,000 9,800	110 23	81 14	62 22	280 96
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ND = not detected

QUARTERLY GROUNDWATER SAMPLING REPORT RODDING-CLEANING SERVICE 2585 Nicholson Street, San Leandro, CA

December 3, 1992

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No. C-34262

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ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. RODDING CLEANIN	√
Site Location San LEANSRO, C.	A Date 11/9/92
Well No. 17W	The state of the s
Weather OCEAR 650F	Time Began 1420 Completed 15/5
EVACUATION DATA	· · · · · · · · · · · · · · · · · · ·
Description of Measuring Point (MP)	L BOX AT GRADE
Total Sounded Depth of Well Below MP 18.84	i
- Depth to Water Below MP 6.78	Diameter
= Water Column in Well 12.06	•
90	= Total Gallons
(30% porosity)	
Gal	lons Pumped Prior to Sampling 55
Evacuation Method AIRLIET C	MPRESOR PUMP
	1
SAMPLING DATA /	FIELD PARAMETERS
·	i
Inspection for Free Product: None	DETECTED
(thickness to 0.1 inch, if any)	
Time 1420 1435	1450 1505
Gals Removed	40 55
Temperature <u>19.5</u> <u>19.0</u>	18.6 17.8
Conductivity 1150 1160	· ·
pH <u>7.2</u> <u>7.5</u>	7.4 7.5
Color / Odor <u>GRY ORG</u> <u>GRY ORG</u> .	CLE HC CLE ORG
turbidity MED MED	low low
Comments: NonE	

ATTACHMENT B

ANALYTICAL RESULTS: GROUNDWATER



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical laboratory

November 11, 1992

PEL # 9211022

HAGEMAN - AGUIAR, INC.

Attn: Jeffrey Roth

Re: One water sample for Gasoline/BTEX and Diesel analyses.

Project name: Rodding Cleaning Project location: San Leandro, CA.

Date sampled: Nov 09, 1992

Date submitted: Nov 09, 1992 Date analyzed: Nov 10-11, 1992 Date extracted: Nov 10-11, 1992

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW 1	9800	N.D.	23	14	22	96
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	94.8%	97.9%	102.3%	105.1%	98.6%	107.0%
Detection limit	50	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602

1d Duong Laboratory Director

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

Fax: 408-946-9663

PEL # 9211022

INV # 23191

CHAIN OF CUSTODY RECORD

PROJECTINAME AND ADDRESS: ROBDING CHENNING SAN LEANBRO, CA					HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)			ANALYSIS REQUESTED									
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