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

GROUNDWATER SAMPLING REPORT

C & L TRUCKING

2460 Wood Street
Oakland, California

March 3, 1997

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

TABLE OF CONTENTS

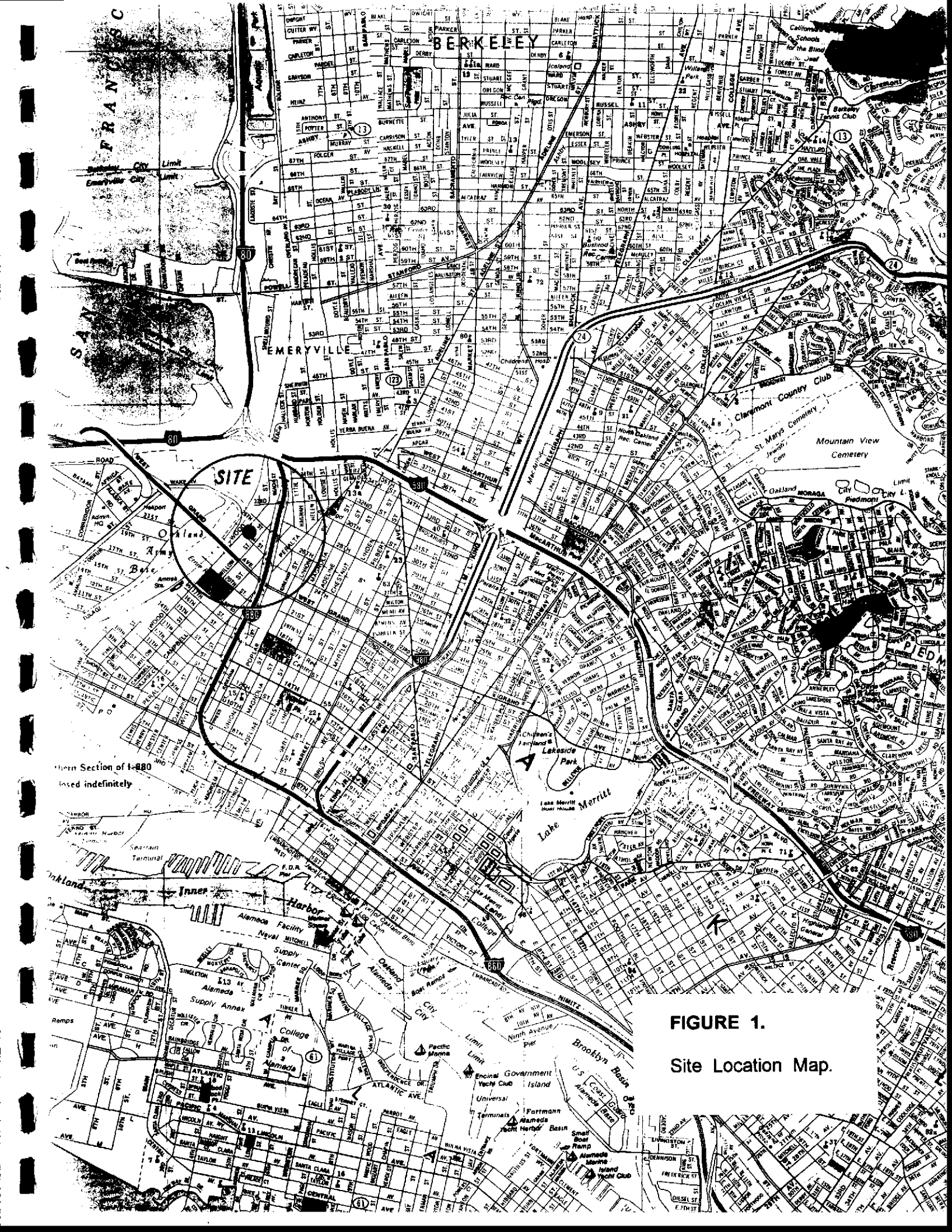


FIGURE 1.

Site Location Map.

II. FIELD WORK

Monitoring Well Sampling

On March 1, 1996, and on February 19, 1997, groundwater samples were collected from monitoring well MW-1. The location of the monitoring well is shown in Figure 2. Prior to groundwater sampling, the well was purged by removing 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. A groundwater sample was subsequently collected from each well using a new clean disposable sampling bailer. The water samples were placed inside appropriate bottles, placed on ice, then immediately transported under chain-of-custody to the laboratory.

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.

Copies of the well sampling logs are provided in Attachment A.

Wastewater Generation

All water removed from the well during purging was drummed and is currently being stored on-site.

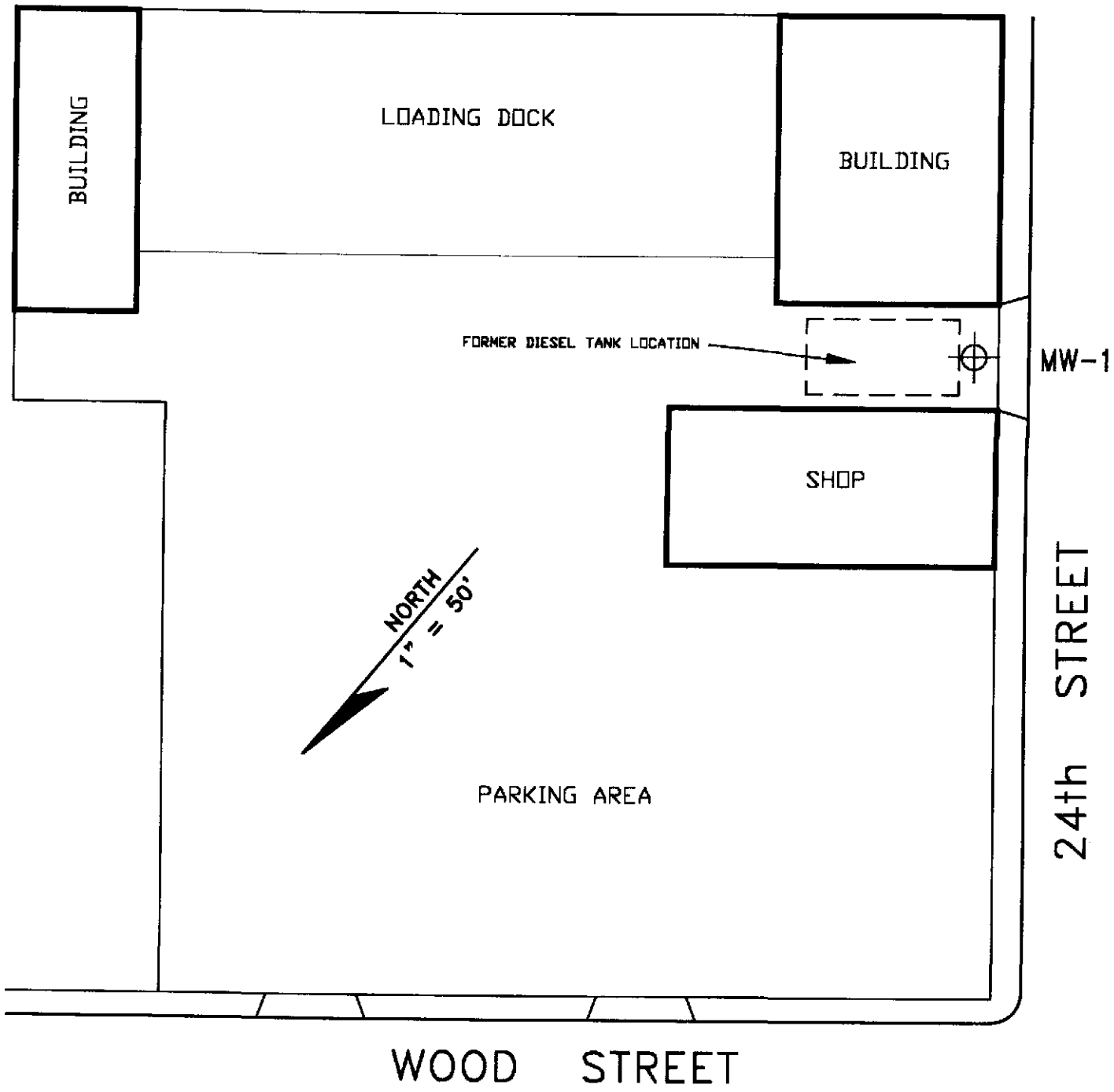


FIGURE 2.
Site Map.

III. ANALYTICAL RESULTS

Laboratory Analysis

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures (Chromalab, Pleasanton, CA).

Groundwater samples were analyzed for:

1) Total Extractable Petroleum Hydrocarbons as Diesel (EPA method 8015).

2) Benzene, Toluene, Ethylbenzene, Total Xylenes and MTBE (EPA method 8020).

Analytical Results: Groundwater

Table 1 presents the results of the laboratory analyses of the groundwater samples collected from well MW-1. Copies of the laboratory certificates for the water sample analyses are provided in Attachment B.

As shown in Table 1, Diesel was detected in the most recent shallow groundwater sample collected from well MW-1 at a concentration of 2,800 μg/L (ppb). No detectable concentration of either Benzene, Toluene, Ethylbenzene, or Total Xylenes was found in the most recent shallow groundwater sample.

TABLE 1.

Shallow Groundwater Sampling Results

Well	Date	TPH as Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
MW-1	03-01-96	ND	---	---	---	---
	02-19-97	**2,800**	ND	ND	ND	ND
Detection Limit		50	0.5	0.5	0.5	0.5

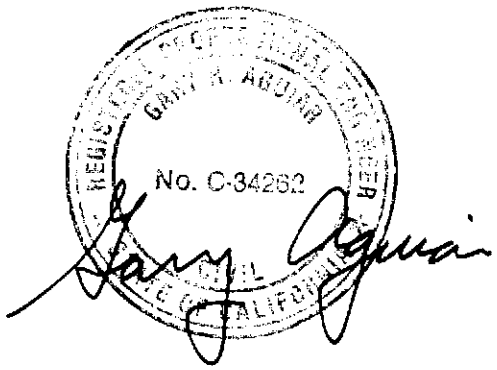
ND = Not Detected

GROUNDWATER SAMPLING REPORT

C&L TRUCKING

2460 Wood Street, Oakland, CA.

March 3, 1997



EXP. 9-30-99

Gary Aguiar **RCE 34262**

ATTACHMENT A

Well Sampling Logs

WELL SAMPLING LOG

Project/No. _____ Page 1 of 1

Site Location C & L Trucking

Date 02/19/97

Well No. MW-1

Time Began 13:29

Weather cloudy, 50°-60° Completed 13:47

Sampling Personnel R Wilson

EVACUATION DATA

Description of Measuring Point (MP) WB@G

Total Sounded Depth of Well Below MP 12.51' +0.27'

- Depth to Water Below MP 3.02' Diameter of Casing 4"

= Water Column in Well 9.76'

Gallons in Casing 6.37 + Annular Space _____ (30% porosity) = Total Gallons _____

Gallons Pumped Prior to Sampling 32

Evacuation Method PVC Bailer

Sample Method Disposable Bailer

Sample collected 2 - 1 Liter Amber, 2 - VOA

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: Sheen, gray
(thickness to 0.1 inch, if any)

Time	13:35	13:38	13:43	13:47
Gals Removed	8	16	24	32
Temperature	64.5	62.3	61.4	61.3
Conductivity	3.19×10^2	2.97×10^2	2.71×10^2	3.07×10^2
pH	6.69	6.70	6.70	6.70
Color / Odor	gray	gray	gray	gray
Turbidity	low sheen	med slight sheen	med no sheen	high no sheen

Comments: non-petroleum odor
sheen disappeared during purging

WELL SAMPLING LOG

Project/No. With Property

Page 1 of 1

Site Location 1700 24th Street Oakland

Date 3/1/96

Well No. MW-1

Time Began _____

Weather Sunny Mid 50's

Completed _____

Sampling Personnel M Hainsworth

EVACUATION DATA

Description of Measuring Point (MP) Well Box @ Grade

Total Sounded Depth of Well Below MP 12.50

- Depth to Water Below MP 1.49

Diameter of Casing 4"

= Water Column in Well 11.01

Gallons in Casing 1.8 + Annular Space (x4) (x10) (30% porosity) = Total Gallons 7.2 18.0

Gallons Pumped Prior to Sampling _____

Evacuation Method PVC Bailer

SAMPLING DATA / FIELD PARAMETERS

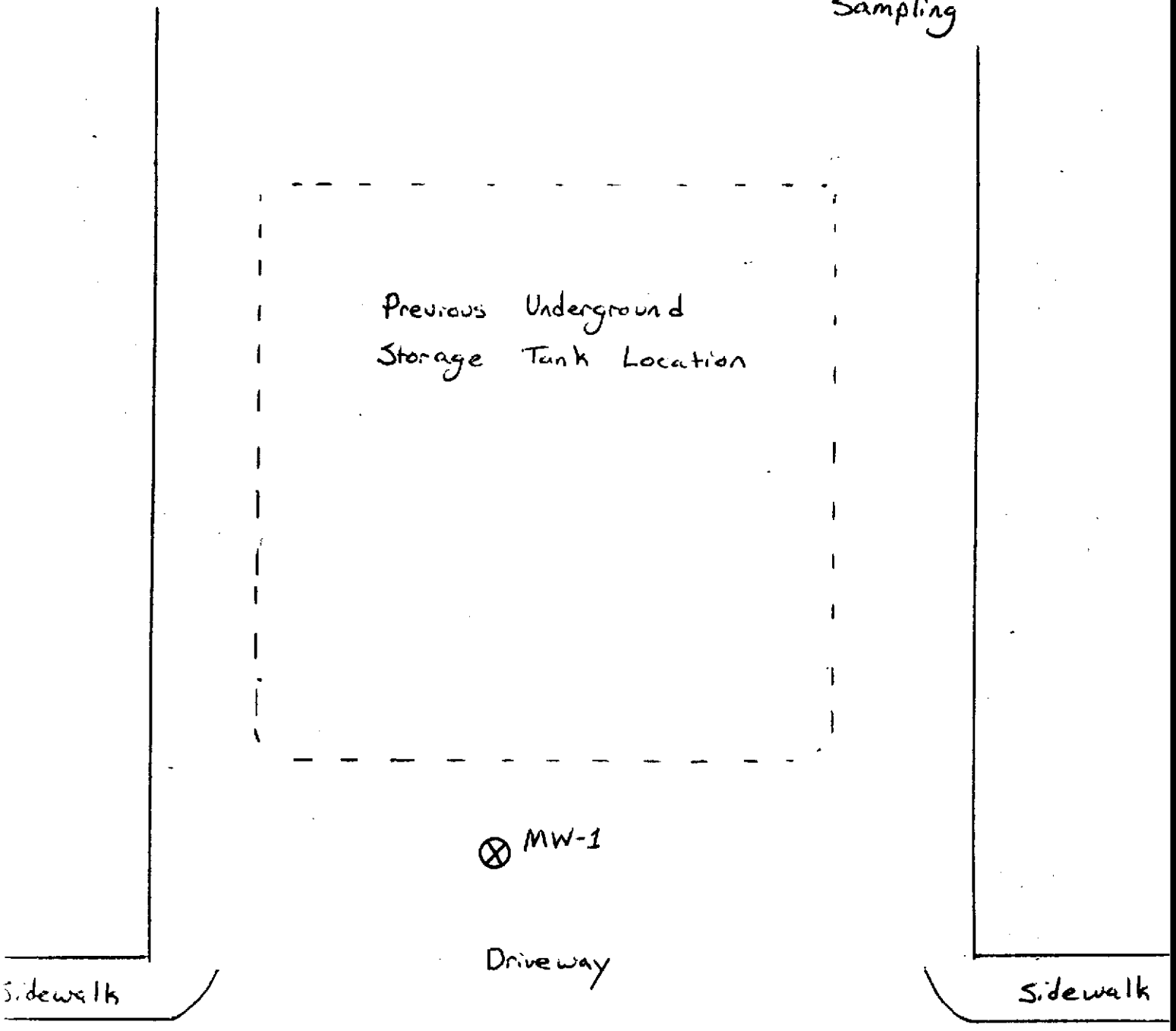
Inspection for Free Product: Slight Sheen (possibly from rain water that seeped in when cover was removed)
(thickness to 0.1 inch, if any)

Time	10:15	10:20	10:25	10:30
Gals Removed	5	10	15	20
Temperature	58.8	57.6	56.7	57.4
Conductivity	740	410	330	630
pH	7.94	8.04	7.57	7.27
Color / Odor	Lt Gray Slt Org Odor	Lt Gray Slt Org Odor	Lt Gray Slt Org Odor	Lt Gray Slt Org Odor
Turbidity	Mod Turb	Mod Turb	Mod Turb	Mod Turb

Comments: Excellent Recharge

1700 24th Street Oakland

Groundwater Well Sampling



ATTACHMENT B

Analytical Results: Groundwater

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

February 20, 1997 PEL # 9702031

HAGEMAN - AGUIAR, INC.

Attn: Gary Aguiar

Re: One water sample for BTEX and Diesel analyses.

Project name: C & L Trucking
Project location: 2460 Wood St., - Oakland

Date sampled: Feb 19, 1997 Date submitted: Feb 19, 1997
Date extracted: Feb 19-20, 1997 Date analyzed: Feb 19-20, 1997

RESULTS:

SAMPLE I.D.	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW-1	2800	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	81.2%	88.4%	95.1%	97.2%	99.3%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	3510 / 8015	602	602	602	602

David Duong
Laboratory Director

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

PEL # 9702031
INV # 27563

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS:

C & L Trucking
2460 Wood Street
Oakland

SAMPLER: (Signature) Randal Wilson

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

ANALYSIS REQUESTED: TPH-Diesel, BTEX

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION								REMARKS
MW-1	02/19/97	13:47		X	well at 24th St. entrance	X							

RELINQUISHED BY: (Signature) Randal Wilson	DATE 02/19/97 TIME 16:00	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) Victor Reon PEZ	DATE 2-19-97 TIME 16:1

PRIORITY ENVIRONMENTAL LABS
Precision Environmental Analytical Laboratory

March 04, 1996 PEL # 9603002

HAGEMAN - AGUIAR, INC.

Attn: Mark Hainsworth

Re: One water sample for Diesel analysis.

Project name: With Property
Project location: 1700 24th St., - Oakland

Date sampled: Mar 01, 1996 Date submitted: Mar 01, 1996
Date extracted: Mar 01-02, 1996 Date analyzed: Mar 01-02, 1996

RESULTS:

SAMPLE I.D.	Diesel (ug/L)
MW-1	N.D.
Blank	N.D.
Spiked Recovery	84.9%
Detection limit	50
Method of Analysis	3510 / 8015

David Duong
Laboratory Director

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

PRIORITY ENVIRONMENTAL LABS

Chain of Custody

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

DATE: 03/01/96 PAGE: 1 OF 1

PROJECT MGR.: Hageman - Aguiar Inc
COMPANY:
ADDRESS: 3732 Mt Diablo Blvd
: Lafayette
PHONE: 510 - 284 - 1661 FAX: - - -
SIGNATURE: Mark Hammond

ANALYSIS REPORT

PEL # 9603002
INV # 26825

SAMPLE ID.	DATE	TIME	MATRIX	TPH-Gasoline (EPA 5030,8015)	TPH-Gasoline(5030,8015) w/BTEX(EPA 602,8020)	TPH-Diesel (EPA 3510/3550,8015)	PURGEABLE AROMATICS BTEX (EPA 602,8020)	TOTAL OIL & GREASE (EPA 5520 C,D&F)	PESTICIDES/PCB (EPA 608,8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601,8010)		NUMBER OF CONTAINERS
MW-1	3/1/96		Water			X							2

PROJECT INFORMATION

PROJECT NAME: Withy Property
PROJECT NUMBER: 1700 24th Street Oak

SAMPLE RECEIPT

TOTAL # OF CONTAINERS: 2
RECD. GOOD COND./COLD:

INSTRUCTIONS & COMMENTS: Norm TAT

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
SIGNATURE: Mark Hammond	SIGNATURE: Victor Duong	SIGNATURE:	SIGNATURE:
Date: 3/1/96 Time: 1205	Date: 3/1/96 Time: 1205	Date: Time:	Date: Time:
COMPANY:	COMPANY: PEL	COMPANY:	COMPANY: