

# HAGEMAN-SCHANK, INC.

*Underground Contamination Investigations*

3732 Mt. Diablo Blvd. Suite 372  
Lafayette, California 94549  
(415) 284-1661  
FAX (415) 284-1664

September 21, 1990

**QUARTERLY REPORT  
FOR  
ADOBE PLAZA  
3098 Castro Valley Blvd  
Castro Valley, CA**

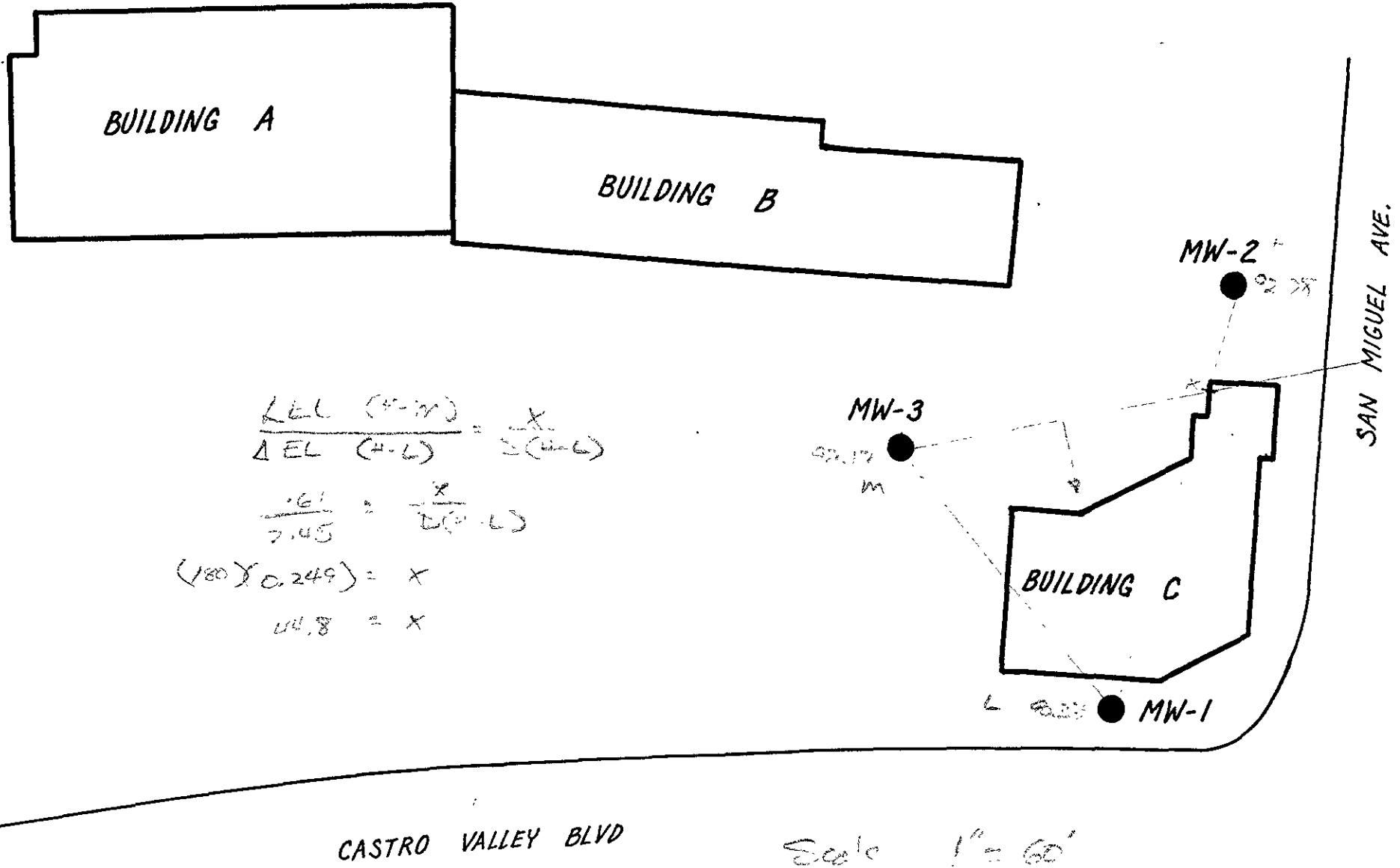
On August 29, 1990, all three on-site monitoring wells were sampled for the laboratory analysis for dissolved petroleum constituents. The locations of the monitoring wells are shown in Figure 1 (site map).

### Monitoring Well Sampling and Laboratory Analysis

On August 29, 1990, groundwater samples were collected from each of the on-site monitoring wells. Prior to groundwater sampling, each well was purged by bailing 3 to 5 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 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 each monitoring well was sampled, the following

90 SEP 31 AM 11: 12



$$\frac{LEL (\% - 100)}{\Delta EL (\% - L)} = \frac{X}{S (\% - L)}$$

$$\frac{.61}{7.45} = \frac{X}{100 - L}$$

$$(100)(0.249) = X$$

$$24.9 = X$$

FIGURE 1.  
Site Map.

Scale 1" = 60'

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 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 BTXE.

Since the laboratory results for the May 1990 round of sampling indicated non-detectable concentrations of any petroleum constituents, the previously drummed purged water from that past sampling was utilized for on-site landscape irrigation. All water removed from the wells during the most recent purging and sampling has been drummed and stored on-site until the results of laboratory analyses could be obtained. Final disposition of this water is still being considered, since some petroleum constituents were detected.

#### Water Level Measurements.

Shallow water table elevations were measured on August 29, 1990. These measurements are shown in Table 1. Figure 2 presents a contour map for the shallow groundwater table beneath the site. As shown in this figure, the data from these monitoring wells indicate that the shallow groundwater flow beneath the site continues to be in the southeasterly direction.

TABLE 1. Shallow Water Table Elevations.  
Adobe Plaza, Castro Valley  
(August 29, 1990)

Well	Top of Casing Elevation (feet)	Depth to Water (feet)	Water Table Elevation (feet)
MW-1	99.73	9.40	90.33
MW-2	100.00	7.22	92.78
MW-3	99.76	7.59	92.17

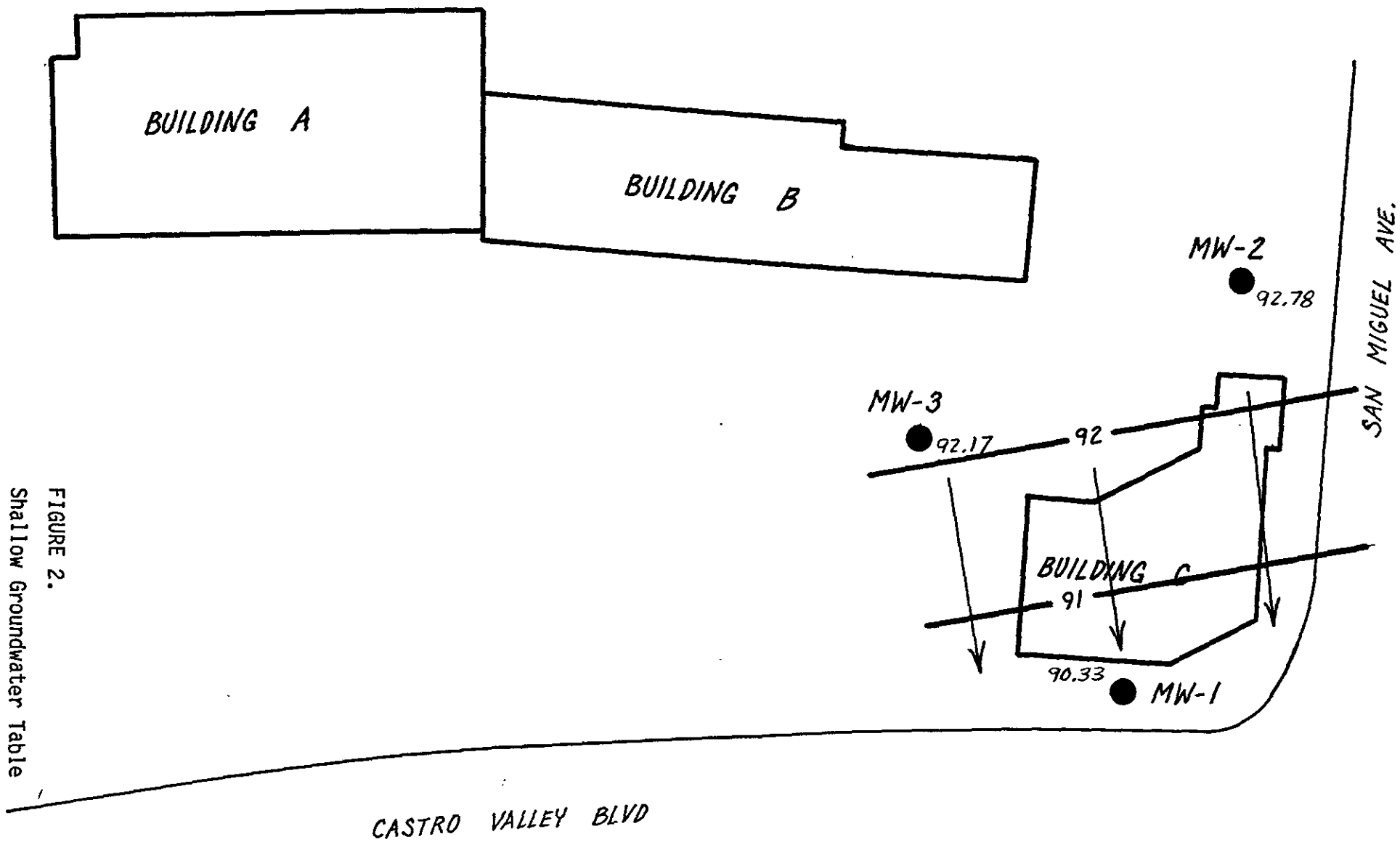


FIGURE 2.  
Shallow Groundwater Table  
Contour Map.

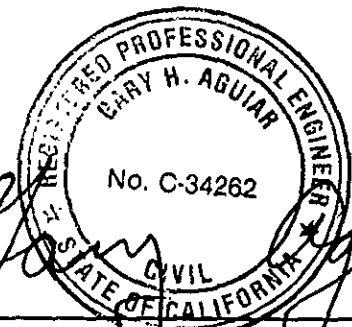
Results of Quarterly Monitoring.

Table 2 presents the results of the laboratory analysis for TPH and BTX of the groundwater samples collected from the monitoring wells. Wells MW-1 and MW-3 continue to show no detectable concentrations of any petroleum constituents.

Relatively low concentrations (up to 110 ug/L) of Gasoline, Toluene, Ethyl Benzene, and Xylenes were detected in the shallow groundwater sample collected from well MW-2. This well is located closest to the contamination source (previous underground gasoline storage tanks).

As shown in Table 2, the initial round of groundwater sampling indicated the presence of Benzene in well MW-2 at a concentration of 5.3 ug/L. No concentrations of Benzene have been detected in any of the shallow groundwater samples collected from any of the on-site monitoring wells since that initial round of sampling on August 22, 1989.

Copies of the laboratory certificates for the water sample analyses are included as Attachment B.



*Gary H. Aguiar*

---

Gary Aguiar RCE 34262

---

Bruce Hageman

TABLE 2. Shallow Groundwater Sampling Results.  
Adobe Plaza, Castro Valley

Well	Date	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- Benzene (ug/L)	Xylenes (ug/L)
1	8-22-89	ND	0.5	1.2	ND	3.1
	5-24-90	ND	ND	ND	ND	ND
	8-29-90	ND	ND	ND	ND	ND
2	8-22-89	110	5.3	ND	ND	ND
	9-06-89	ND	ND	ND	ND	ND
	5-24-90	ND	ND	ND	ND	ND
	8-29-90	110	ND	0.8	1.1	0.6
3	8-22-89	ND	ND	ND	ND	ND
	6-08-90	ND	ND	ND	ND	ND
	8-29-90	ND	ND	ND	ND	ND
<b>DETECTION LIMIT (ug/L)</b>		50	0.5	0.5	0.5	0.5



**ATTACHMENT A**

**WELL SAMPLING LOGS**

WELL SAMPLING LOG

Project/No. \_\_\_\_\_ Page 1 of 3  
Site Location ADOBE PLAZA Date 8-29-90  
Well No. MW-3 Time Sampling Began 10:18 A  
Weather SUNNY, 80° F Completed 10:50 A

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX LID  
Total Sounded Depth of Well Below MP 23.83  
Depth to Water Below MP 7.59' Diameter of Casing 2"  
Water Column in Well 16.24'  
Gallons in Well 8.0 Gallons Pumped/Bailed Prior to Sampling 10.0  
Evacuation Method BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE  
Appearance NO SHEEN Temperature 21 °F (°C)  
Specific Conductance (umhos/cm) 1835 pH 6.73  
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>10:25A</u>	<u>10:35A</u>	<u>10:45A</u>
Temperature	<u>21°C</u>	<u>21°C</u>	<u>21°C</u>
Conductivity	<u>1520</u>	<u>1850</u>	<u>1835</u>
pH	<u>6.50</u>	<u>6.71</u>	<u>6.73</u>

Sampling Personnel Keith Jay

WELL SAMPLING LOG

Project/No. \_\_\_\_\_ Page 2 of 3  
Site Location ADOBE PLAZA  
Well No. MW-1 Date 8-29-90  
Weather SUNNY, 80°F Time Sampling Began 10:55 A  
Completed 11:30 A

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX LID  
Total Sounded Depth of Well Below MP 23.87'  
Depth to Water Below MP 9.40' Diameter of Casing 2"  
Water Column in Well 14.47'  
Gallons in Well 7.05 Gallons Pumped/Bailed  
Prior to Sampling 10.0  
Evacuation Method BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE  
Appearance NO SHEEN Temperature 23 °F (°C)  
Specific Conductance (umhos/cm) 800 pH 7.30  
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>10:55 A</u>	<u>11:17 A</u>	<u>11:30 A</u>
Temperature	<u>23°C</u>	<u>23°C</u>	<u>23°C</u>
Conductivity	<u>800</u>	<u>800</u>	<u>800</u>
pH	<u>7.25</u>	<u>7.30</u>	<u>7.30</u>

Sampling Personnel Keith Jay

WELL SAMPLING LOG

Project/No. \_\_\_\_\_ Page 3 of 3  
Site Location ADOBE PLAZA Date 8-29-90  
Well No. MW-2  
Weather SUNNY, 80°F Time Sampling Began 11:35A  
Completed 12:05A

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX LID  
Total Sounded Depth of Well Below MP 18.50'  
Depth to Water Below MP 7.22' Diameter of Casing 2"  
Water Column in Well 11.28'  
Gallons in Well 5.6 Gallons Pumped/Bailed  
Prior to Sampling 7.5  
Evacuation Method BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor ORGANIC (SEPTIC)  
Appearance SPOTTY Temperature 23 °F (°C)  
Specific Conductance (umhos/cm) 1000 pH 7.24  
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>11:35A</u>	<u>11:50A</u>	<u>12:05A</u>
Temperature	<u>23°C</u>	<u>23°C</u>	<u>23°C</u>
Conductivity	<u>690</u>	<u>1000</u>	<u>1000</u>
pH	<u>7.35</u>	<u>7.30</u>	<u>7.24</u>

Sampling Personnel Keith Jay

**ATTACHMENT B**

**ANALYTICAL RESULTS: GROUNDWATER**

# CHROMALAB, INC.

Analytical Laboratory  
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

September 6, 1990

ChromaLab File No.: 0890252

HAGEMAN - SCHANK, INC.

Attn: Gary Aguilar

Re: Three water samples for Gasoline/BTEX analyses

Project Name: Adobe Plaza

Project Number:

Date Sampled: 8/29/90

Date Submitted: 8/29/90

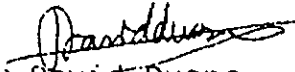
Date Extracted: 8/30 - 9/4/90

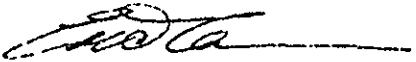
Date Analyzed: 8/30 - 9/4/90

## RESULTS:

Sample No.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	110	N.D.	0.8	1.1	0.6
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE	N.D.	N.D.	N.D.	N.D.	N.D.
RECOVERY DUPLICATED SPIKE	36.4%	86.1%	92.5%	94.4%	93.5%
RECOVERY DETECTION LIMIT	92.5%	91.8%	107.9%	102.5%	89.1%
LIMIT	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	602	602	602	602

CHROMALAB, INC.

  
David Duong  
Senior Chemist

  
Eric Tam  
Laboratory Director

# CHROMALAB, INC.

2239 Omega Road, #1 • San Ramon, California 94583  
415/831-1788 • Facsimile 415/831-8798

Chain of Custody

DATE \_\_\_\_\_ PAGE 1 OF 1

PROJ. MGR. <u>GARY AGUIAR</u> COMPANY <u>HAGEMAN SCHAUK</u> ADDRESS <u>3732 MT. DIABLO #373</u> <u>LAFAYETTE, CA</u>					ANALYSIS REQUEST														NUMBER OF CONTAINERS
SAMPLERS (SIGNATURE) <u>Keith Jay</u>				(PHONE NO.)	TPH - Gasoline (EPA 5030)	TPH - Gasoline (5030) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510, 3550)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 624/627, 8270)	TOTAL OIL & GREASE (EPA 5030aE)	PESTICIDES/PCB (EPA 608, 8080)	PHENOLS (EPA 604, 8040)	METALS: Cd, Cr, Pb, Zn	CAN METALS (18) w/Gr VI	PRIORITY POLLUTANT METALS (13)		
SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.															
MW-3	8-29-90	12:45	W			X													
MW-1	8-29-90	12:50	W			X													
MW-2	8-29-90	12:45	W			X													

CHROMALAB FILE # 890252

PROJECT INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY 1.		RELINQUISHED BY 2.		RELINQUISHED BY 3.	
PROJECT: <u>ADOBE PLAZA</u>	TOTAL NO. OF CONTAINERS <u>6</u>	CHAIN OF CUSTODY SEALS		(Signature) <u>Keith Jay</u>	(Time) <u>15:05</u>	(Signature)	(Time)	(Signature)	(Time)
PO NO.	REC'D GOOD CONDITION/COLD	CONFORMS TO RECORD		(Printed Name) <u>KEITH JAY</u>	(Date) <u>8-29-90</u>	(Printed Name)	(Date)	(Printed Name)	(Date)
SHIPPING ID. NO.	LAB NO.			(Company) <u>HAGEMAN SCHAUK</u>		(Company)		(Company)	
VIA:				RECEIVED BY 1.	RECEIVED BY 2.	RECEIVED BY (LABORATORY) 3.			
SPECIAL INSTRUCTIONS/COMMENTS:				(Signature)	(Time)	(Signature) <u>[Signature]</u>	(Time) <u>3:00 PM</u>	(Signature)	(Time)
				(Printed Name)	(Date)	(Printed Name) <u>DOUG WENT</u>	(Date) <u>08/29/90</u>	(Printed Name)	(Date)
				(Company)		(Company) <u>Chromalab, Inc.</u>		(Company)	