

HAGEMAN-SCHANK, INC.

Underground Contamination Investigations

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December 13, 1990

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

On November 28, 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 November 28, 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.

98DEC 20 AM 11

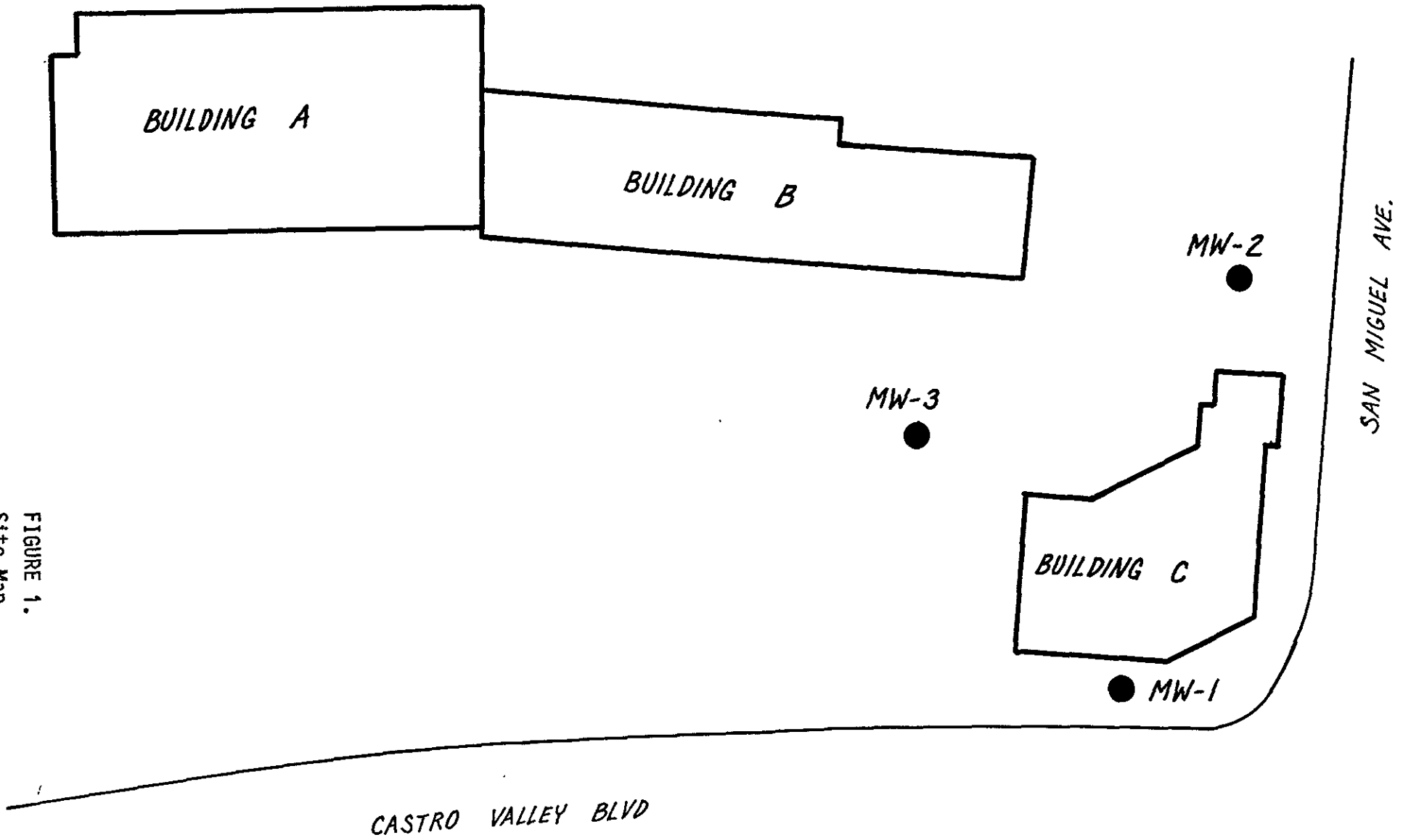


FIGURE 1.
Site Map.

At the time each 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 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.

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.

Water Level Measurements.

Shallow water table elevations were measured on November 28, 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
(November 28, 1990)

Well	Top of Casing Elevation (feet)	Depth to Water (feet)	Water Table Elevation (feet)
MW-1	99.73	9.49	90.24
MW-2	100.00	7.21	92.79
MW-3	99.76	7.59	92.17

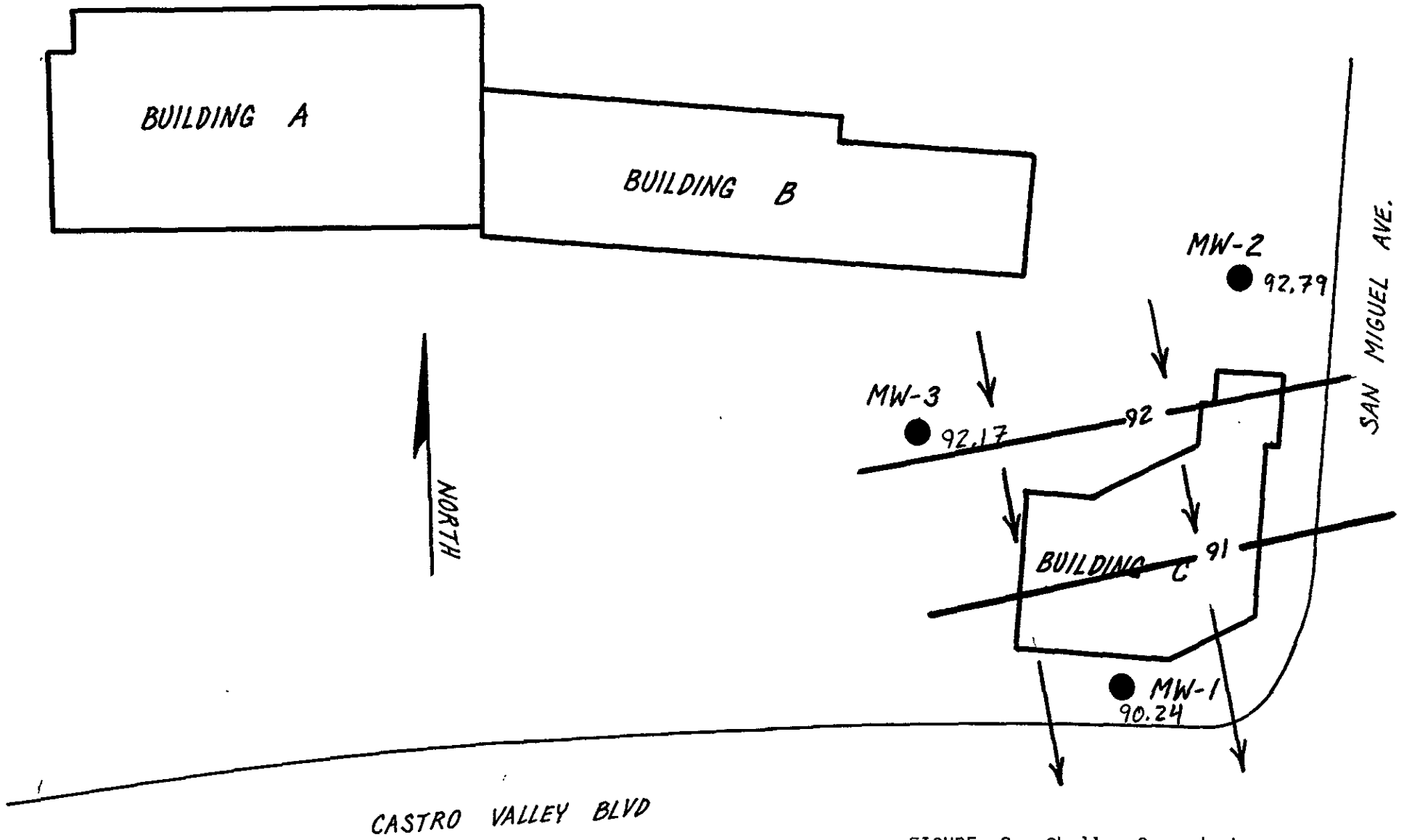


FIGURE 2. Shallow Groundwater Contour Map.

**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
	11-28-90	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
	11-28-90	ND	ND	ND	ND	ND
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
	11-28-90	ND	ND	ND	ND	ND
DETECTION LIMIT (ug/L)		50	0.5	0.5	0.5	0.5

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. For this round of sampling, well Mw-2 also showed no detectable concentrations of any petroleum constituents.

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



Gary Aguiar

RCE 34262



Bruce Hageman

ATTACHMENT A

WELL SAMPLING LOGS

WELL SAMPLING LOG

Project/No. ADOBE PLAZA Page 1 of 3
Site Location CASTRO VALLEY Date 11-28-90
Well No. MW-3 Time Sampling Began 12:20
Weather SUNNY, 65° F Completed 13:50

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (AT GRADE)
Total Sounded Depth of Well Below MP 23.85
Depth to Water Below MP 7.59 Diameter of Casing 2"
Water Column in Well 16.26
Gallons in Well 8.7 Gallons Pumped/Bailed Prior to Sampling 9
Evacuation Method TEFLON BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE
Appearance NO SHEEN Temperature 21 °F (°C)
Specific Conductance (umhos/cm) 1900 pH 6.90
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>12:30</u>	<u>12:38</u>	<u>12:47</u>
Temperature	<u>20.5</u>	<u>21</u>	<u>21</u>
Conductivity	<u>1880</u>	<u>1875</u>	<u>1900</u>
pH	<u>6.88</u>	<u>6.92</u>	<u>6.90</u>

Sampling Personnel Keith Jay

WELL SAMPLING LOG

Project/No. ADOBE PLAZA Page 2 of 3
Site Location CASTRO VALLEY Date 11-28-90
Well No. MW-1
Weather SUNNY, 65°F Time Sampling Began 12:55
Completed 14:00

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (GRADE)
Total Sounded Depth of Well Below MP 23.60
Depth to Water Below MP 9.49 Diameter of Casing 2"
Water Column in Well 14.11
Gallons in Well 2.3 Gallons Pumped/Bailed
Prior to Sampling 9
Evacuation Method TEFLON BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor NONE
Appearance NO SHEEN Temperature 20.5°F (60°C)
Specific Conductance (umhos/cm) 800 pH 7.30
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>13:02</u>	<u>13:10</u>	<u>13:20</u>
Temperature	<u>20.5</u>	<u>20.0</u>	<u>20.5</u>
Conductivity	<u>775</u>	<u>800</u>	<u>800</u>
pH	<u>7.31</u>	<u>7.33</u>	<u>7.30</u>

Sampling Personnel Keith Jay

WELL SAMPLING LOG

Project/No. ADOBE PLAZA Page 3 of 3
Site Location CASTRO VALLEY
Well No. MW-2 Date 11-28-90
Weather SUNNY, 65° F Time Sampling Began 13:25
Completed 14:10

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX (GRADE)
Total Sounded Depth of Well Below MP 18.50
Depth to Water Below MP 7.21 Diameter of Casing 2"
Water Column in Well 11.29
Gallons in Well 1.8 Gallons Pumped/Bailed
Prior to Sampling 9
Evacuation Method TEFLON BAILER

SAMPLING DATA / FIELD PARAMETERS

Color CLEAR Odor SEPTIC
Appearance NO SHEEN Temperature 20 °F (°C)
Specific Conductance (umhos/cm) 900 pH 6.82
Sampling Method and Material TEFLON BAILER

FIELD ANALYSES:	Start	Mid	End
Time	<u>13:30</u>	<u>13:37</u>	<u>13:45</u>
Temperature	<u>20.5</u>	<u>20.0</u>	<u>20.0</u>
Conductivity	<u>1075</u>	<u>1050</u>	<u>900</u>
pH	<u>6.90</u>	<u>6.79</u>	<u>6.82</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

December 5, 1990

ChromaLab File No.: 1190142

HAGEMAN-SCHANK, INC.

Attn: Keith Jay

RE: Three water samples for Gasoline/BTEX analysis

Project Name: ADOBE PLAZA

Date Sampled: Nov. 28, 1990

Date Submitted: Nov. 28, 1990


Date Extracted: Dec. 4-5, 1990

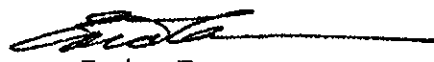
Date Analyzed: Dec. 4-5, 1990

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	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	104.7%	105.5%	98.6%	91.0%	93.0%
DUP SPIKE REC	82.2%	104.4%	103.4%	103.2%	95.6%
DETECTION 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

CHAIN OF CUSTODY RECORD

PROJ. NO.		SAMPLER: (Signature) <i>Keith Jay</i>				ANALYSIS REQUESTED TOTAL PETROLEUM HYDROCARBONS <i>GASOLINE</i> BTEX VOC-EPA 8210 TOTAL OIL & GREASE TETRAETHYL LEAD						
PROJECT NAME AND ADDRESS:												
ADDBE PLAZA CASTRO VALLEY BLVD. CASTRO VALLEY, CA												
CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	X	X	X	X	X	X	REMARKS
MW-3	11-28-90	13:50		X	MONITOR WELL - 3	X	X					
MW-1	↓	14:00		X	↓ - 1	X	X					
MW-2	↓	14:10		X	↓ - 2	X	X					
RELINQUISHED BY: (Signature) <i>Keith Jay</i>				DATE <i>11-28-90</i>		RECEIVED BY: (Signature) <i>[Signature]</i>				DATE <i>11-28-90</i>		
RELINQUISHED BY: (Signature)				TIME <i>16:12</i>		RECEIVED BY: (Signature)				TIME <i>16:12</i>		
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)				DATE _____		
RELINQUISHED BY: (Signature)				TIME _____		RECEIVED FOR LABORATORY BY: (Signature)				TIME _____		