

January 28, 1993

Mr. Steve Chrissanthos  
Alameda Cellars  
1702 Lincoln Avenue  
Alameda, CA 94501

RE: Field Investigation  
and Results of Groundwater Sampling at  
2425 Encinal, Alameda, California  
Permit No. 92659

Dear Mr. Chrissanthos:

Thank you for providing ACC with the opportunity to present this report. The enclosed report describes the materials and procedures used during a field investigation performed at 2425 Encinal, Alameda, California.

ACC's investigative approach was to drill five borings and convert three of them into groundwater monitoring wells. This work was performed to evaluate the lateral and vertical extent of soil contamination and to determine hydrocarbon concentrations in groundwater.

Soil samples collected during drilling were submitted to Geochem Environmental Laboratories for petroleum hydrocarbon analyses, in accordance with the "Tri Regional Guidelines for Underground Storage Tank Sites".

The results of the chemical analysis of the soil samples indicated elevated levels of Total Petroleum Hydrocarbons (TPH) as gasoline and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) from all five of the borings.

Analysis of the groundwater samples from monitoring wells MW-1, MW-2 and MW-3 indicated elevated concentrations of hydrocarbons.

If you have any comments regarding this report, please call me.

Sincerely,

  
Misty D. Kaltreider  
Geologist

cc: Mr. Richard Hiatt - Regional Water Quality Control Board  
Ms. Juliet Shin - Alameda County Health Care Services - Division of  
Hazardous Materials  
Mr. Wyman Hong - Alameda County Flood Control and Water Conservation  
District, Zone 7

SOIL AND GROUNDWATER INVESTIGATION


2425 ENCINAL  
ALAMEDA, CALIFORNIA

January 1993


Prepared for:  
Mr. Steve Chrissanthos  
Alameda Cellars  
1702 Lincoln Avenue  
Alameda, CA 94501

Prepared by:

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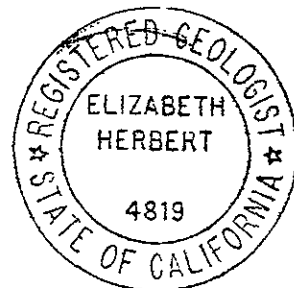


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Figures 5 - 10	Log of Borings B-1, B-2, B-3, B-4, B-5, and MW-2a
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Figures 12 - 15	Well Construction Details for Wells MW-1, MW-2, MW-3, and MW-2a
Exhibit A	Chain of Custody Forms and Analytical Test Results
Exhibit B	Notes of Well Sampling
Exhibit C	Site Plan/Benchmark Description from Surveying Engineer

## 1.0 INTRODUCTION

This report presents the procedures and findings of a soil and groundwater investigation conducted by ACC Environmental Consultants, Inc., ("ACC") on behalf of Mr. Steve Chrissanthos and Alameda Cellars, site owner at 2425 Encinal, Alameda, California. The project objective, as described in the Work Plan prepared on December 9, 1992, was to drill five soil borings to evaluate the extent of soil contamination. Three of the borings were converted into 2-inch diameter groundwater monitoring wells to determine if groundwater has been impacted from the previous underground storage of gasoline.

During the field investigation, four borings were drilled to evaluate the lateral extent of contamination near the previous tank excavation. A fifth boring was drilled beneath the former dispensing island. During drilling, groundwater was encountered approximately between 9 and 14 feet below present grade. Two of the three monitoring wells were completed to approximately 15 feet below present grade. The third well was completed to approximately 18 feet below grade. Groundwater samples from the wells were analyzed to determine what impact any release may have had on the groundwater.

*Why so shallow when we can't find party clearly?*

## 2.0 BACKGROUND

The site is presently occupied by Alameda Cellars, a commercial liquor store. The property is owned by Mr. Steve Chrissanthos. On March of 1990, two 10,000-gallon gasoline tanks were removed from the above referenced site. Analysis of the soil samples collected from beneath the two gasoline tanks indicated up to 710 parts per million (ppm) of Total Petroleum Hydrocarbons (TPH) as gasoline. Soil samples collected from beneath the diesel tank indicated less than detectable levels of TPH as diesel.

Per request of Alameda County Health Care Services - Hazardous Materials Division, this preliminary Site Assessment was conducted to further evaluate the soil contamination from the gasoline release on-site.

ACC was retained by Mr. Chrissanthos, to perform the work requested by the Alameda County Health Care Services.

## 3.0 FIELD PROCEDURES

Borings B-1 through B-5 were drilled on December 23, 1992 using a B-53 mobile drill rig equipped with 6 to 8-inch outside diameter hollow-stem augers. Concurrent with drilling, subsurface soil samples were obtained with a Modified California Sampler equipped with three six-inch long brass liners. The sampler and brass liners were pre-cleaned prior to use and between sample drives by washing them with a trisodium phosphate (TSP) and potable water solution, a potable water rinse, and distilled water rinse. Soil samples were collected every five feet, at any noted changes in lithology, and at the approximate soil/groundwater interface. Subsurface

soil samples were obtained by drilling to the approximate sampling location and then driving the sampler eighteen inches into undisturbed material.

Upon removal from the sampler, each end of the brass liner was covered with Teflon tape and plastic caps, labeled, and stored in an ice-filled cooler to be transported under chain of custody to Geochem Environmental Laboratories, a Cal-EPA certified laboratory.

A minimum of two soil samples were selected from each boring and submitted to Geochem Environmental Laboratories of San Jose, California for analysis according to the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated August 10, 1990. Samples from the borings were submitted for analysis for Total Petroleum Hydrocarbons (TPH) as gasoline by EPA test method 5030 and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA test method 8020. Copies of the analytical results and chain of custody forms are provided in Exhibit A.

The soil cuttings and samples were logged by an ACC geologist during drilling operations. Lithologic logs of the borings are shown in Figures 5 through 10, respectively. The soil cuttings are described in accordance with the Unified Soil Classification System, as shown in Figure 11. Soil cuttings were stored on-site in DOT approved drums.

### 3.1 Monitoring Well Construction and Development

Monitoring wells MW-1, MW-2 and MW-3 were installed within borings B-1, B-3 and B-4, respectively, upon completion of drilling. Well construction details are presented in Figures 12 through 14. Monitoring Wells MW-1 and MW-2 were installed with well casings consisting of 2-inch I.D. Schedule 40 PVC with 10 feet of 0.020-inch factory slotted screen below 8 feet of solid casing. Monitoring well MW-3 was installed with well casing consisting of 2-inch I.D. Schedule 40 PVC with 10 feet of 0.020-inch factory slotted screen below 5 feet of solid casing.

The wells were installed with Lonestar #2/12 sand used as annular fill to at least one foot above the top of the screen. One foot of 1/4-inch pelletized bentonite was placed between the annular sand and neat cement seal. "Christy" boxes were cemented over the tops of the PVC casings and set slightly above grade to drain surface waters away from the well head. Locking expansion plugs with locks were placed on each well.

The wells were developed on December 31, 1992 and January 5, 1993, using a double-ended rubber O-ring stopper followed by pumping, using a precleaned downhole pump. The wells were developed until pH and conductivity of development water had stabilized and was substantially free of fine material. Approximately 10 well casing volumes of water were removed from each well.

During development, Monitoring Well MW-2 was damaged. A hole developed in the PVC casing which resulted in sand pack filling the casing. Due to the

questionable integrity of the well, Monitoring Well MW-2 was abandoned and Monitoring Well MW-2a was drilled and installed in a different location.

On January 6, 1993, Monitoring Well MW-2 was abandoned by overdrilling the well using eight-inch hollow stem augers to a depth of 18 feet. The well casing and well construction materials were removed and the hole was back-filled with neat cement. The cement consisted of one sack of Portland cement to five gallons of clean water. The mixture was then placed in the hole by means of a tremie pipe lowered to within three feet of the bottom of the well and was delivered in one continuous operation until the well was filled.

Monitoring Well MW-2a was drilled and installed on January 6, 1993. Grab soil samples were collected from the cuttings during drilling. Two samples were collected (at 7 and 15 feet below ground surface) in pre-cleaned brass sample tubes. The ends of the tubes were covered with Teflon tape and plastic caps. The tubes were labeled, and stored in an ice-filled cooler to be transported under chain of custody to Geochem Environmental Laboratories, a Cal-EPA certified laboratory.

The soil cuttings and samples were logged by an ACC geologist during drilling operations. Lithologic logs of the boring MW-2a is shown in Figure 10. The soil cuttings are described in accordance with the Unified Soil Classification System, as shown in Figure 11. Soil cuttings were stored on-site in DOT approved drums.

Monitoring Well MW-2a was installed in the boring upon completion of drilling. Well construction details are presented on Figure 15. Monitoring well MW-2a was installed with well casing consisting of 2-inch I.D. Schedule 40 PVC with 10 feet of 0.020-inch factory slotted screen below 5 feet of solid casing.

The well was installed with Lonestar #2/12 sand used as annular fill to at least one foot above the top of the screen. One foot of 1/4-inch pelletized bentonite was placed between the annular sand and neat cement seal. A "Christy" box was cemented over the top of the PVC casing and set slightly above grade to drain surface waters away from the well head. A locking expansion plug with lock was placed on the well.

Monitoring Well MW-2a was developed using a double-ended rubber O-ring stopper followed by pumping, using a precleaned downhole pump. The well was developed until pH and conductivity of development water had stabilized and was substantially free of fine material. Approximately 10 well casing volumes of water were removed.

### 3.2 Groundwater Sampling

Groundwater samples were taken on January 9, 1993 from monitoring wells MW-1, MW-2a, and MW-3. Prior to groundwater sampling the depth to the surface of the water table was measured from the top of the PVC casing using a Solinst Water Level Meter. Information regarding well elevations and

groundwater level measurements is summarized below in Table 1.

**TABLE 1**  
Groundwater Depth Information

<u>Date Sampled</u>	<u>Depth to Groundwater (ft.)</u>	<u>Groundwater Elevation (ft.)</u>
<u>Well No. MW-1</u> 01/09/93	Elevation of Top of Casing-27.78 MSL 6.75	21.03
<u>Well No. MW-2a</u> 01/09/93	Elevation of Top of Casing-28.17 MSL 7.06	21.11
<u>Well No. MW-3</u> 01/09/93	Elevation of Top of Casing-27.89 MSL 6.68	21.21

Notes:

All measurements in feet  
MSL = Mean Sea Level

After water-level measurements were taken, each on-site well was purged by hand using a designated disposable Teflon bailer for each well. Groundwater pH, temperature and electrical conductivity were monitored during well purging. Each well was considered to be purged when these parameters stabilized. Four well volumes were removed to purge each well. See Exhibit B for worksheets of groundwater conditions monitored during purging.

After the groundwater level had recovered to a minimum of approximately 80 percent of its static level, water samples were obtained using the designated disposable Teflon bailer. Two 40 ml VOA vials, without headspace, were filled from the water collected from each monitoring well.

The samples were preserved on ice and submitted to Geochem Environmental Laboratories under chain of custody protocol (see Exhibit A for laboratory results and chain of custody).

#### **4.0 FINDINGS**

##### **4.1 Subsurface Conditions**

During drilling and sampling activities, the site was observed to be covered with a baserock/asphalt cap. Below the cap, the subsurface soils consisted of brown fine grained sand to an explored depth of 18 feet. The sand is part of the Merritt Sand.

A report by the Alameda County Flood Control and Water Conservation District Geohydrology and Groundwater - Quality Overview, East Bay Plain Area, Alameda County, California, 205 (J) Report, June 1988, describes the Merritt Sand as consisting of loose well-sorted, fine to medium grained sand and silt, with lenses of sandy clay and clay. The sand was a wind and water deposited beach and near-shore deposit and is exposed only in the

Alameda and Oakland areas.

Groundwater was encountered between 9 and 14 feet below ground surface (bgs) during drilling. Borings B-1 and B-3 were drilled to approximately 18 feet bgs. Borings B-2, B-4 and MW-2a were drilled to approximately 15 feet bgs. Boring B-5 was drilled to approximately 6 feet bgs until auger refusal.

Monitoring wells MW-1, MW-2, MW-2a, and MW-3 were completed at the drilled depths within borings B-1, B-3, MW-2a, and B-4, respectively.

During drilling and sampling field evidence of volatile organics (i.e. discoloration and odor) were detected from each boring. Table 2 below describes the intervals in each boring of which volatile organics were detected.

**TABLE 2**  
Field Evidence of Volatile Organics

Boring No.	Odor	Discoloration	Depth Observed
B-1 (MW-1)	moderate	yes	8 to 9 feet bgs
B-2	slight to strong	yes	5 to 13 feet bgs
B-3 (MW-2)	slight to strong	yes	2 to 14 feet bgs
B-4 (MW-3)	strong	yes	3 to 13 feet bgs
B-5	slight	yes	4 to 6 feet bgs
MW-2a	strong	yes	2 to 14 feet bgs

#### 4.2 Analytical Results - Soil

Analysis of soil collected from the borings B-1 through B-4 and MW-2a indicated elevated levels of Total Petroleum Hydrocarbons (TPH) as gasoline with BTEX. Analysis of soil from boring B-5 indicated levels of TPH as gasoline with BTEX that were below detectable levels. Laboratory results are presented in Exhibit A, Figure 2 and are summarized below.

**TABLE 3**  
Analytical Results - Soil

Boring	Sample Number	Depth (feet)	TPH-gasoline (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)
B-1 (MW-1)	B1-10.5	10.5	314	4.3	3.8	6.8	11.6
	B1-16	16	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
B-2	B2-10	10	1,365	18.9	37.0	28.4	56.0
	B2-14	14	26	0.6	0.5	1.2	2.3
B-3 (MW-2)	B3-5.5	5.5	121	0.8	0.7	4.6	10.2
	B3-10.5	10.5	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
B-4 (MW-3)	B4-5.5	5.5	10	0.4	0.4	0.5	0.8
	B4-15.5	15.5	<0.05	<0.0005	<0.0005	<0.0005	<0.0005



**TABLE 3 cont.**  
Analytical Results - Soil

Boring Number	Sample Number	Depth (feet)	TPH-gasoline (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)
B-5	B5-5	5	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
MW-2a	MW-2A-7	7	24.6	0.8	0.6	0.6	1.1
	MW-2A-15	15	7.9	0.5	0.4	0.2	0.5

Notes: 1. mg/Kg = parts per million (ppm)  
2. Samples B2-10, B3-10.5, and B4-5.5 were analyzed for total lead and contained concentrations of 22, <1 and 5 ppm, respectively.

4.3 Analytical Results - Groundwater

After well installation and development, one groundwater sample each from Monitoring Wells MW-1, MW-2a and MW-3 was collected and submitted to Geochem Environmental Laboratories for analysis for TPH as gasoline by EPA test method 5030 and BTEX by EPA test method 602. Analysis results from the groundwater samples are illustrated below and are shown in Figure 3. Copies of the analytical results are provided in Exhibit A.

**TABLE 4**  
Analytical Results - Groundwater

Monitoring Well Number	TPH-gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
MW-1	5,360	1,560.0	1,026.6	641.0	2,706.2
MW-2a	5,680	801.6	598.6	840.2	2,196.1
MW-3	<50	<0.5	<0.5	<0.5	<0.5

2,606.2

Notes:  
ug/L = parts per billion (ppb)

4.4 Groundwater Gradient

Prior to calculating the groundwater gradient, elevations for the on-site monitoring wells were surveyed by Ron Archer Civil Engineer, Inc. to an accuracy of one-hundredth of a foot. The well elevation was surveyed at the top of the PVC well casing. The elevations of the monitoring wells were established relative to a nearby benchmark located in the curb on the northwest corner of the intersection of Park and Encinal Avenues in Alameda, California. A site map and benchmark description from the surveying engineer is provided in Exhibit C.

The groundwater gradient was calculated using the on-site monitoring wells. The location of the wells is shown on Figure 1 - Site Plan. Groundwater elevations were taken from the wells on January 9, 1993. The gradient was

evaluated by triangulation using the elevation of the potentiometric surface measured with respect to Mean Sea Level datum. As shown in Figure 4, the groundwater gradient was approximately 0.005 foot per foot with the general direction of flow being west-southwest.

## **5.0 CONCLUSION**

The data and observations discussed herein indicate that groundwater has been impacted due to an unauthorized hydrocarbon release. The analytical parameters used for sampling performed in December 1992 and January 1993 were in accordance with the "Tri-Regional Water Quality Control Boards Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated August 10, 1990, for gasoline tanks.

The maximum soil concentration of Total Petroleum Hydrocarbons (TPH) as gasoline was 1,365 ppm and was in the sample collected at 10 feet below present grade in boring B-2. Benzene concentration was 18.9 ppm in the same sample. A maximum of approximately 12 feet of soil staining was observed in borings B-3 and MW-2a from 2 to 14 feet below ground surface.

The lateral extent of hydrocarbon impacted soil does not appear to extend east into boring B-5. However, boring B-5 could not be sampled below 5 feet due to auger refusal. Impacted soil was not detected below approximately 10 feet in boring B-1, indicating a possible vertical extent to hydrocarbon movement.

Groundwater samples indicated a maximum TPH-gasoline concentration of 5,680 ppb (MW-2a) and a maximum benzene concentration of 1,560 ppb (MW-1).

## **6.0 RECOMMENDATIONS**

Pursuant to the Tri-Regional Board guidelines, groundwater sampling and monitoring of the on-site wells should continue on a quarterly basis.

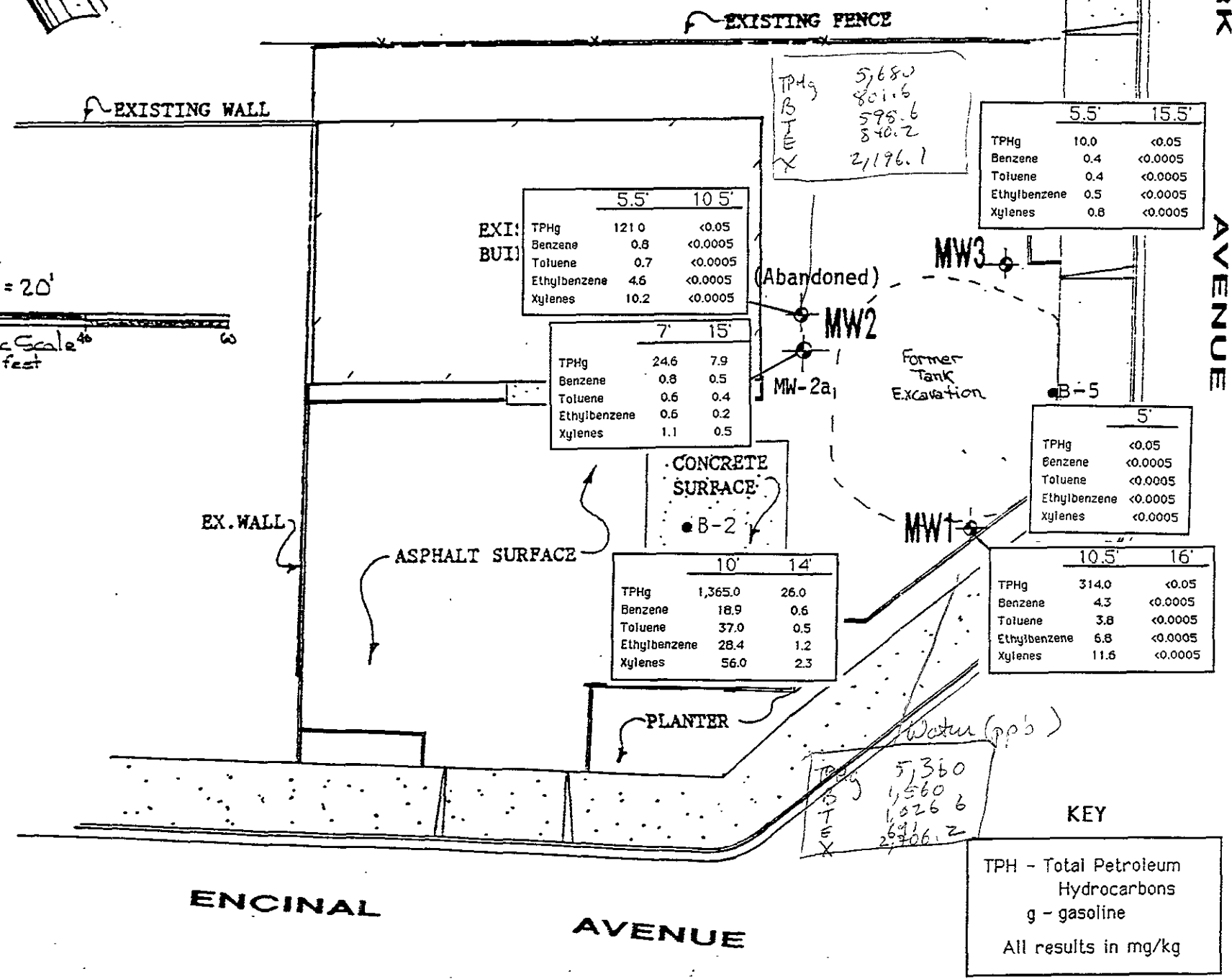
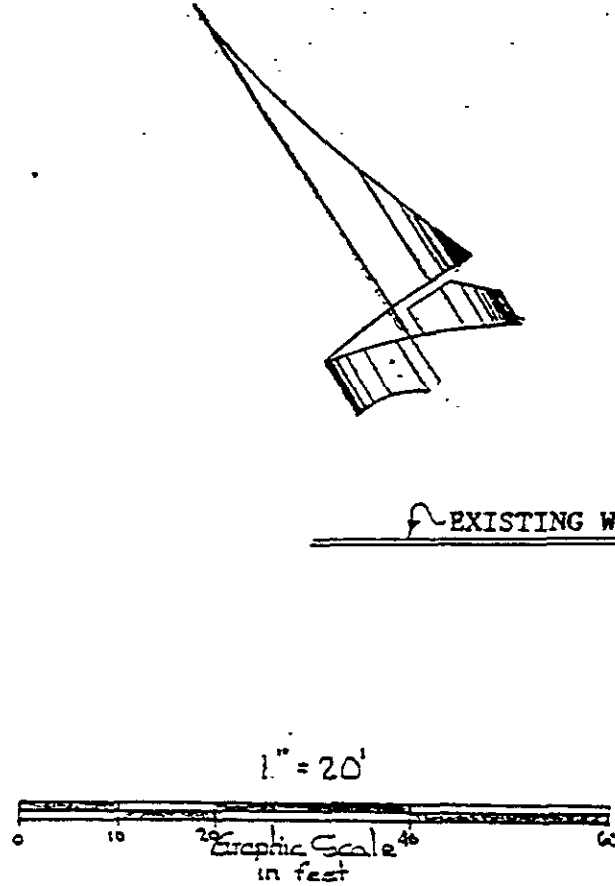
Additional investigation of subsurface soil and groundwater will be required by regulatory agencies to evaluate the lateral extent of hydrocarbon impact. Due to the relatively high transmissivity of the underlying soil the potential exists for migration of hydrocarbons off-site. ACC recommends that a workplan be prepared to address regulatory concerns.

MONITOR WELL DATA TABLE

WELL DESIGNATION	ELEV	DESCRIPTION
MW1	27.78 28.86	TOP OF PVC CASING TOP OF BOX
MW2	28.17 28.76	TOP OF PVC CASING TOP OF BOX
MW3	27.89 28.84	TOP OF PVC CASING TOP OF BOX
BH	28.25	GROUND



VICINITY MAP  
N.T.S



JANUARY 4, 1993

JOB NO. 1986

PLAT SHOWING EXISTING MONITOR WELLS AT THE ALAMEDA CELLARS LIQUOR STORE, LOCATED AT 2425 ENCINAL AVENUE AT PARK AVENUE CITY OF ALAMEDA, ALAMEDA COUNTY, CALIFORNIA

FOR: ACC ENVIRONMENTAL CONSULTANTS, INC.  
PROJECT NO. 6839-3

**BENCHMARK:**  
A FOUND BRASS PLUG SET IN TOP OF CURB AT MID RETURN AT THE NORTHWESTERLY CORNER OF INTERSECTION OF PARK AVENUE AND ENCINAL AVENUE. ELEVATION TAKEN AS 27.63 M.S.L.

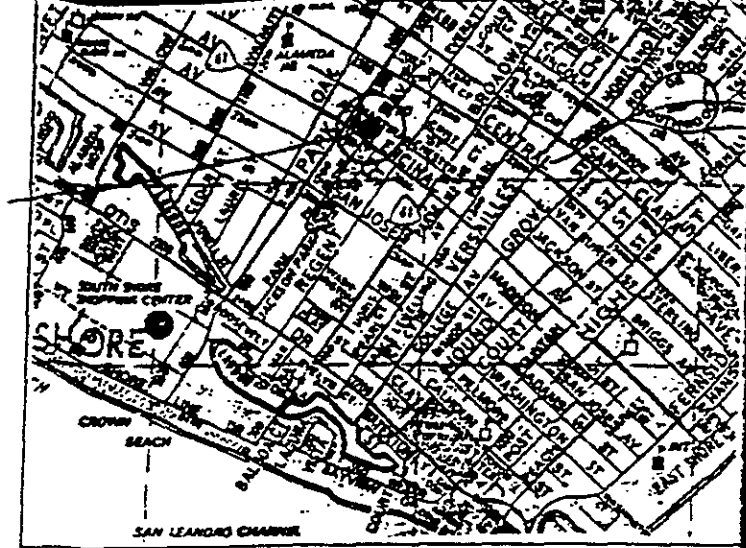
**KEY**  
TPH - Total Petroleum Hydrocarbons  
g - gasoline  
All results in mg/kg



Figure 2  
Sample Analysis - Soil

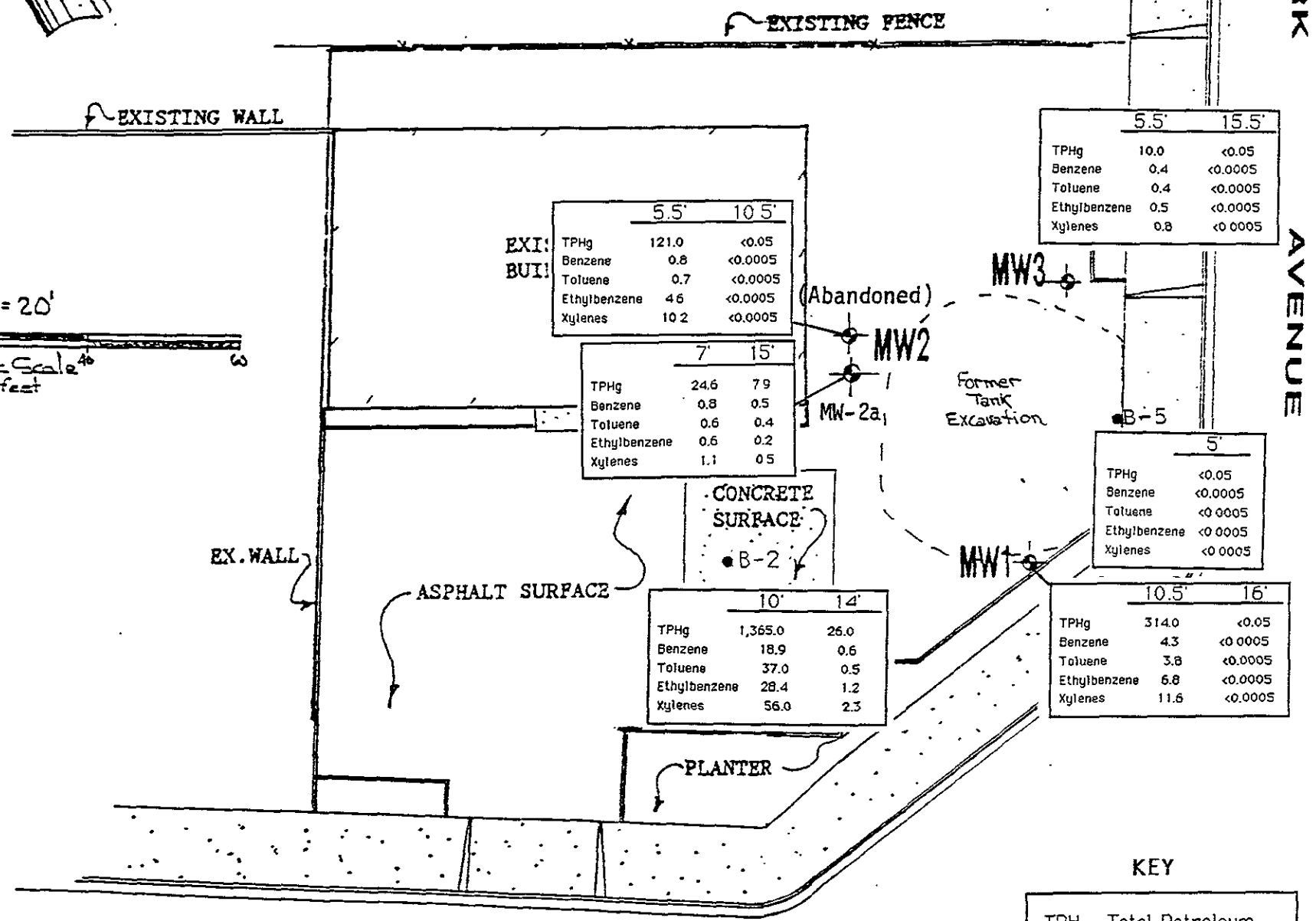
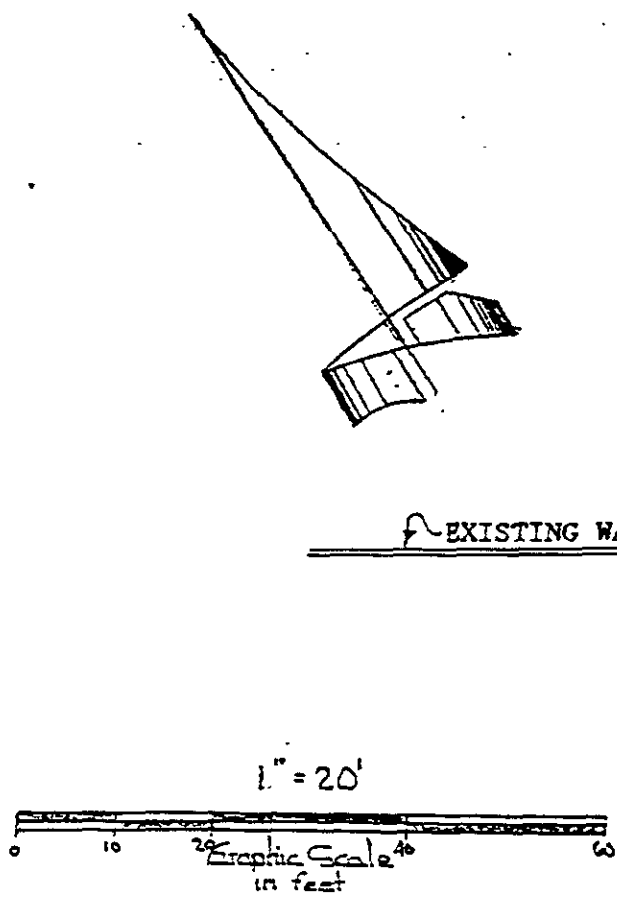
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SITE

VICINITY MAP  
N.T.S



PARK AVENUE

ENCINAL AVENUE

	5.5'	15.5'
TPHg	10.0	<0.05
Benzene	0.4	<0.0005
Toluene	0.4	<0.0005
Ethylbenzene	0.5	<0.0005
Xylenes	0.8	<0.0005

	5.5'	10.5'
TPHg	121.0	<0.05
Benzene	0.8	<0.0005
Toluene	0.7	<0.0005
Ethylbenzene	4.6	<0.0005
Xylenes	10.2	<0.0005

	7'	15'
TPHg	24.6	7.9
Benzene	0.8	0.5
Toluene	0.6	0.4
Ethylbenzene	0.6	0.2
Xylenes	1.1	0.5

	5'
TPHg	<0.05
Benzene	<0.0005
Toluene	<0.0005
Ethylbenzene	<0.0005
Xylenes	<0.0005

	10'	14'
TPHg	1,365.0	26.0
Benzene	18.9	0.6
Toluene	37.0	0.5
Ethylbenzene	28.4	1.2
Xylenes	56.0	2.3

	10.5'	16'
TPHg	314.0	<0.05
Benzene	4.3	<0.0005
Toluene	3.8	<0.0005
Ethylbenzene	6.8	<0.0005
Xylenes	11.6	<0.0005

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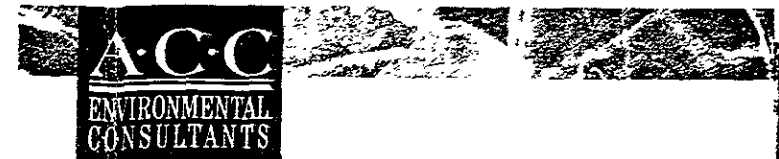


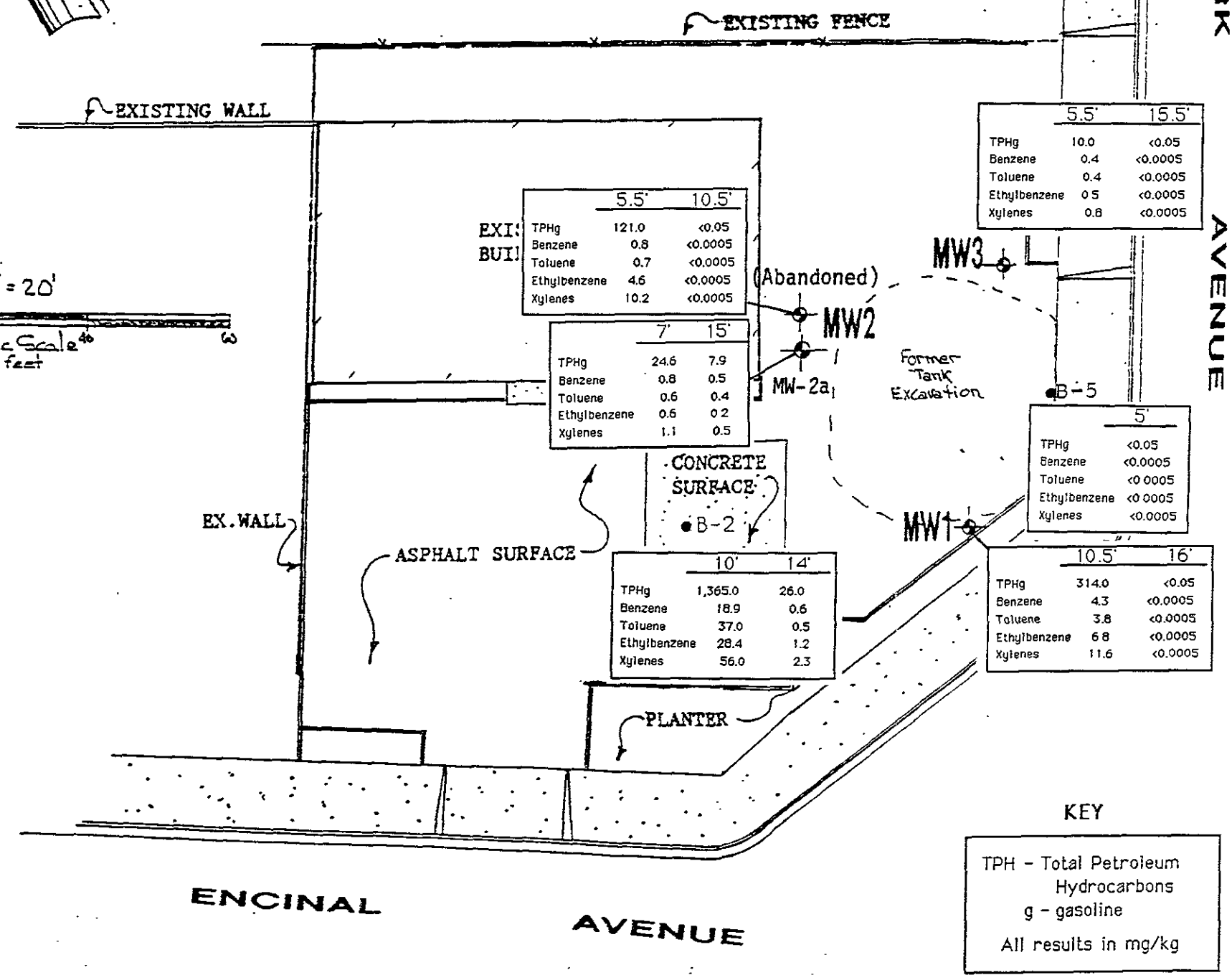
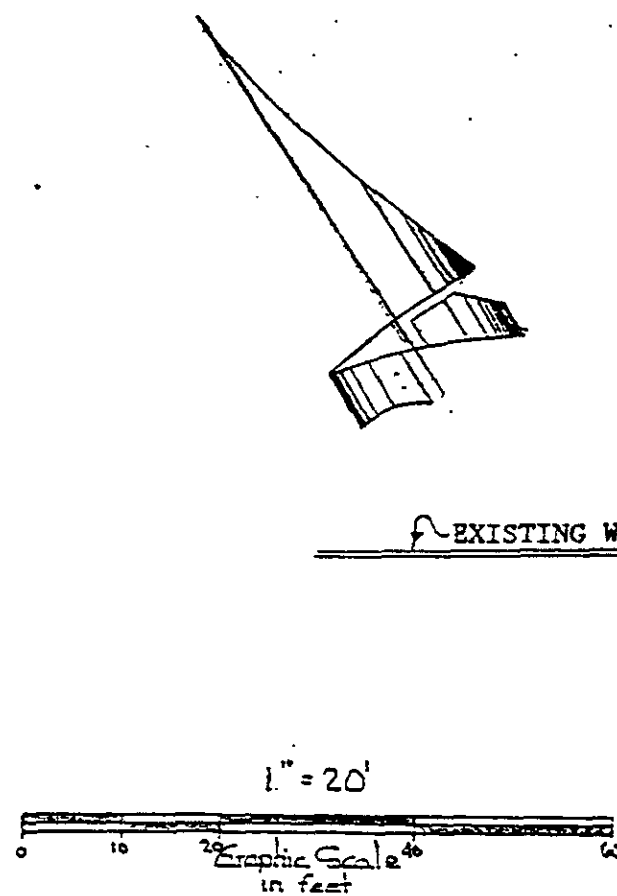
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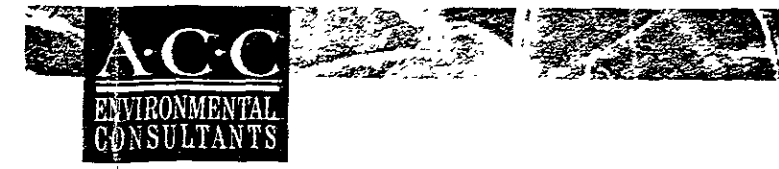


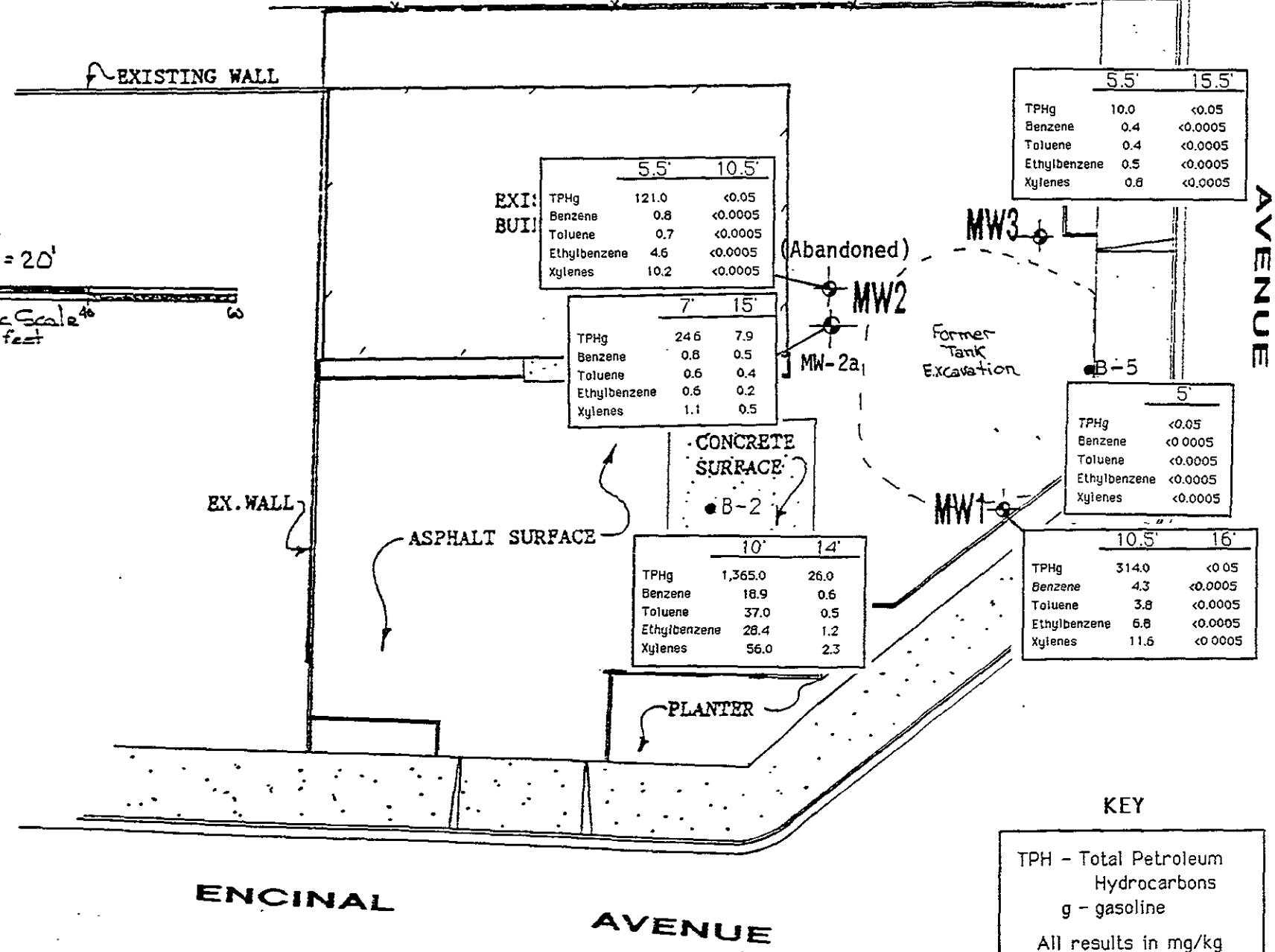
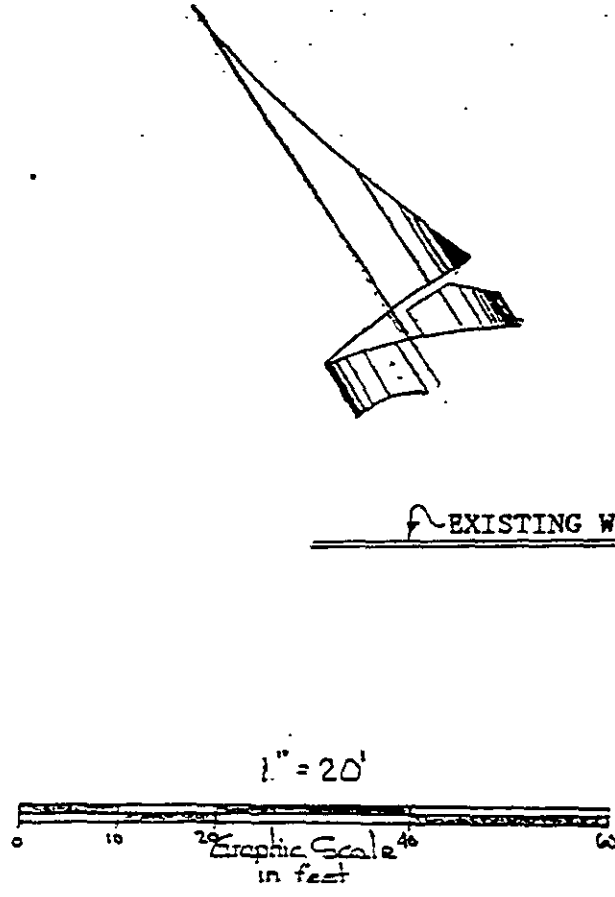
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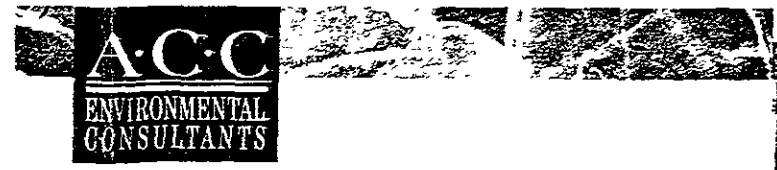











Figure 2  
Sample Analysis - Soil


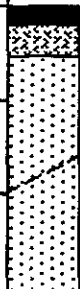
Bayland Drilling B-53 Drill Rig.	HNu (ppm)	Blows/6 in.	SAMPLE #	Sample Int.	Depth (feet)	Equipment: Hollow Stem Auger Logged By: M. Kaltreider PROJECT: 2425 Encinal Start Date: 12/23/92	
Soil color described using Munsell soil color charts					0	Asphalt: 4" lift. Lt. brown gravelly silt (GM) & gravelly clay (GC), med grained, dense (baserock)	
<u>Color code</u>					2		
(10YR-3/3)	0	12	B1-5.5		4 6	Dk. brown sand (SP). with gravel. moist, medium dense (Merritt Sand).	
(10YR-4/4)	0	13	B1-10.5		8 10	Green sand (SP), moist, medium dense, slight odor.	
(10YR-4/4)	0	13	B1-16		12 14 16	DK. yellowish brown sand (SP), very moist, loose.   (groundwater 12/23/92)  Same as above, saturated.	
					18 20 22 24 26 28	BOTTOM OF BORING @ 18 FEET  (Converted into Monitoring Well MW-1)	
ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501					JOB NO: 6039-3  DATE: 1/4/92		LOG OF BORING B-1 2425 Encinal Avenue  FIGURE: 5

Bayland Drilling B-53 Drill Rig.	Blows/6 in.	SAMPLE #	Sample Int.	Depth (feet)	Equipment: Hollow Stem Auger Logged By: M. Kaltreider PROJECT: 2425 Encinal Start Date: 12/23/92
Soil color described using Munsell soil color charts  <u>Color code</u>  (10YR-3/2) (Gley 5G4-4/1)  (Gley 5G4-4/1)  (10YR-3/2)				0 2 4 6 8 10 12 14 16 18 20 22 24 26 28	Asphalt: 4" lift. Lt brown gravelly silt (GM) & gravelly clay (GC), med grained, dense (baserock)  Dk. brown sand (SP); with gravel, moist, medium dense. (Merritt Sand).  Green sand (SP), moist, medium dense, strong odor.  ▼ (groundwater 12/23/92) Brown sand (SP), saturated, loose.  BOTTOM OF BORING @ 14 FEET
	4	B2-5.5		6	
	13	B2-10		10	
	13	B2-14		14	
ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6039-3		LOG OF BORING B-2 2425 Encinal Avenue		
	DATE: 1/4/92		FIGURE: 6		



Bayland Drilling B-53 Drill Rig.	Blows/6 in.	SAMPLE #	Sample Int.	Depth (feet)	Equipment: Hollow Stem Auger Logged By: M. Kaltreider PROJECT: 2425 Encinal Start Date: 12/23/92
Soil color described using Munsell soil color charts <u>Color code</u> (10YR-3/2)  (Gley 5G4-4/1)  (Gley 5G4-4/1)  (2.5Y-4/2)	4  11  13	B3-5.5  B3-10.5  B3-15.5		0 2 4 6 8 10 12 14 16 18 20 22 24 26 28	Asphalt: 4" lift. Lt. brown gravelly silt (GM) & gravelly clay (GC), med grained, dense (baselock) ----- Brown sand (SP) (Merritt Sand). ----- Green sand (SP), moist, loose, strong odor.  Green sand (SP), moist, medium dense, strong odor.  ▼ (groundwater 12/23/92) ----- Brown sand (SP), saturated, loose.  BOTTOM OF BORING @ 18 FEET  (Converted into Monitoring Well MW-2)
ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501			JOB NO: 6039-3  DATE: 1/4/92		LOG OF BORING B-3 2425 Encinal Avenue  FIGURE: 7

Bayland Drilling B-53 Drill Rig.	Blows/6 in.	SAMPLE #	Sample Int.	Depth (feet)	Equipment: Hollow Stem Auger Logged By: M. Kaitreider PROJECT: 2425 Encinal Start Date: 12/23/92		
Soil color described using Munsell soil color charts <u>Color code</u> (10YR-3/2)  (Gley 5G4-4/1)  (Gley 5G4-4/1)  (2.5Y-5/4)	2           4           13	B4-5.5           B4-10.5           B4-15.5		0 2 4 6 8 10 12 14 16 18 20 22 24 26 28	<p>Asphalt: 4" lift. Lt. brown gravelly silt (GM) &amp; gravelly clay (GC), med grained, dense (baserock)</p> <p>Brown sand (SP) (Merritt Sand).</p> <p>Green sand (SP), moist, loose, strong odor.</p> <p>▼ (groundwater 12/23/92)</p> <p>Green sand (SP), saturated, loose, strong odor.</p> <p>Brown sand (SP), saturated, loose.</p> <p>BOTTOM OF BORING @ 15 FEET (Converted into Monitoring Well MW-3)</p>		
					ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6039-3	LOG OF BORING B-4 2425 Encinal Avenue
						DATE: 1/4/92	FIGURE: 8

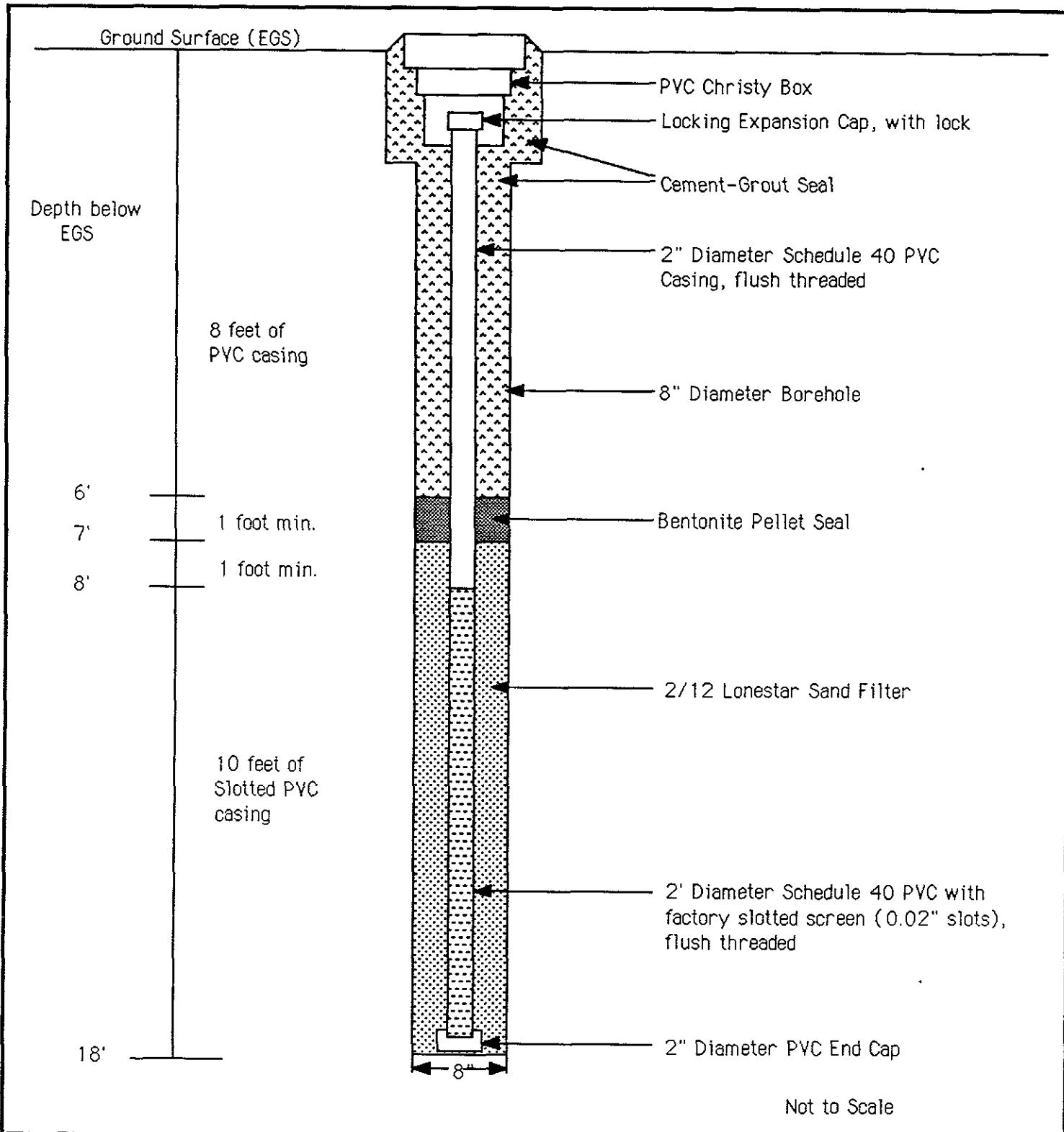
Bayland Drilling B-53 Drill Rig.	Blows/6 in.	SAMPLE #	Sample Int.	Depth (feet)	Equipment: Hollow Stem Auger Logged By: M. Kaltreider PROJECT: 2425 Encinal Start Date: 12/23/92
Soil color described using Munsell soil color charts <u>Color code</u> (10YR-3/2)  (Gley 5G4-5/1)	8	B5-5		0 2 4 6 8 10 12 14 16 18 20 22 24 26 28	 <p>Asphalt: 4" lift. Lt. brown gravelly silt (GM) &amp; gravelly clay (GC), med grained, dense (baserock)</p> <p>Brown sand (SP) (Merritt Sand).</p> <p>Green sand (SP), moist, loose, strong odor.</p> <p>BOTTOM OF BORING @ 6 FEET (Refusal at 6 feet)</p>
				ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6039-3
		DATE: 1/4/92	FIGURE: 9		

Bayland Drilling B-53 Drill Rig.	Grab SAMPLE #	Sample Int.	Depth (feet)	Equipment: Hollow Stem Auger Logged By: M. Kaltreider PROJECT: 2425 Encinal Start Date: 12/23/92
Soil color described using Munsell soil color charts <u>Color code</u> (10YR-3/2)  (Gley 5G4-4/1)  (2.5Y-4/2)	MW-7			Asphalt: 4" lift. Lt. brown gravelly silt (GM) & gravelly clay (GC), med grained, dense (baserock) ----- Brown sand (SP) (Merritt Sand). ----- Green sand (SP), moist, loose, strong odor.  ----- Green sand (SP), moist, medium dense, strong odor.  ----- ▼ (groundwater 1/6/93) ----- Brown sand (SP), saturated, loose.
				MW-15
ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501		JOB NO: 6039-3		LOG OF BORING MW-2a 2425 Encinal Avenue
		DATE: 1/7/92		FIGURE: 10

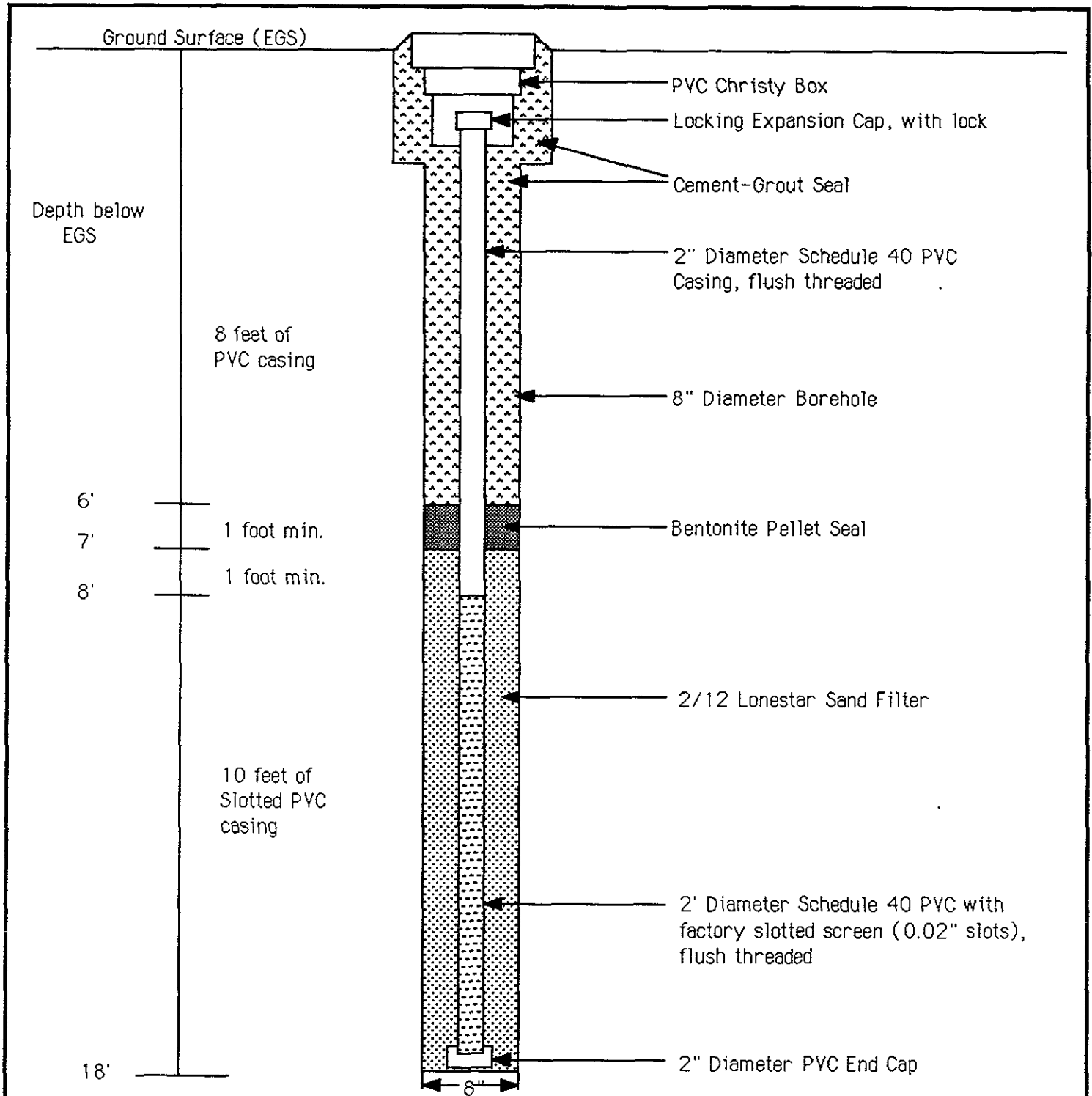
MAJOR DIVISIONS		TYPICAL NAMES		
COARSE GRAINED SOILS more than half > #200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	G W	well graded gravels, gravel-sand mixtures
			G P	poorly graded gravels, gravel-sand mixtures
		GRAVELS WITH OVER 12% FINES	G M	silty gravels, poorly graded gravel-sand silt mixtures
			G C	clayey gravels, poorly graded gravel-sand clay mixtures
	SANDS more than half coarse fraction is smaller than No. 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	S W	well graded sands, gravelly sands
			S P	poorly graded sands, gravelly sands
		SANDS WITH OVER 12% FINES	S M	silty sands, poorly graded sand-silt mixtures
			S C	clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS more than half < #200 sieve	SILTS AND CLAYS liquid limit less than 50	M L	inorg. silts and v.fine sands, rock flour silty or clayey sands, or clayey silts w/sl. plasticity	
		C L	inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		O L	organic clays and organic silty clays of low plasticity	
	SILTY AND CLAYS liquid limit greater than 50	M H	inorganic silty, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		C H	inorganic clays of high plasticity, fat clays	
		O H	organic clays of medium to high plasticity organic silts	
	HIGHLY ORGANIC SOILS	Pt	peat and other highly organic soils	

### UNIFIED SOIL CLASSIFICATION SYSTEM

ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVENUE, SUITE 110 ALAMEDA, CA 94501		Soil Classification System	
Project No. 6064-2	Date: 1/9/93	DRN: MCK	Figure No. 11



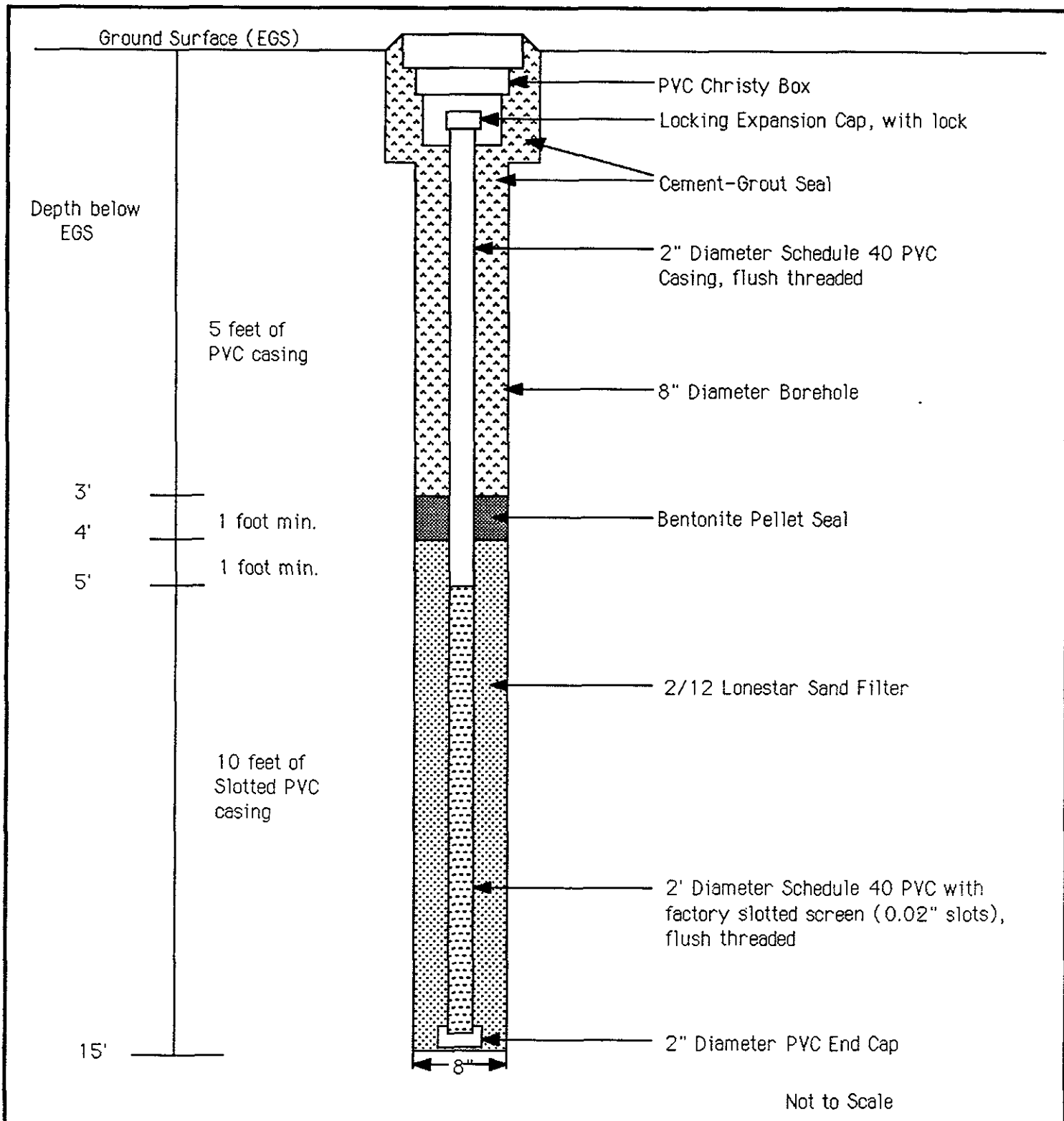
ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6039-3	Schematic of Monitoring Well No.: MW-1
	Date: 1/7/93	Figure No.: <b>12</b>



(Abandoned 1/6/93)

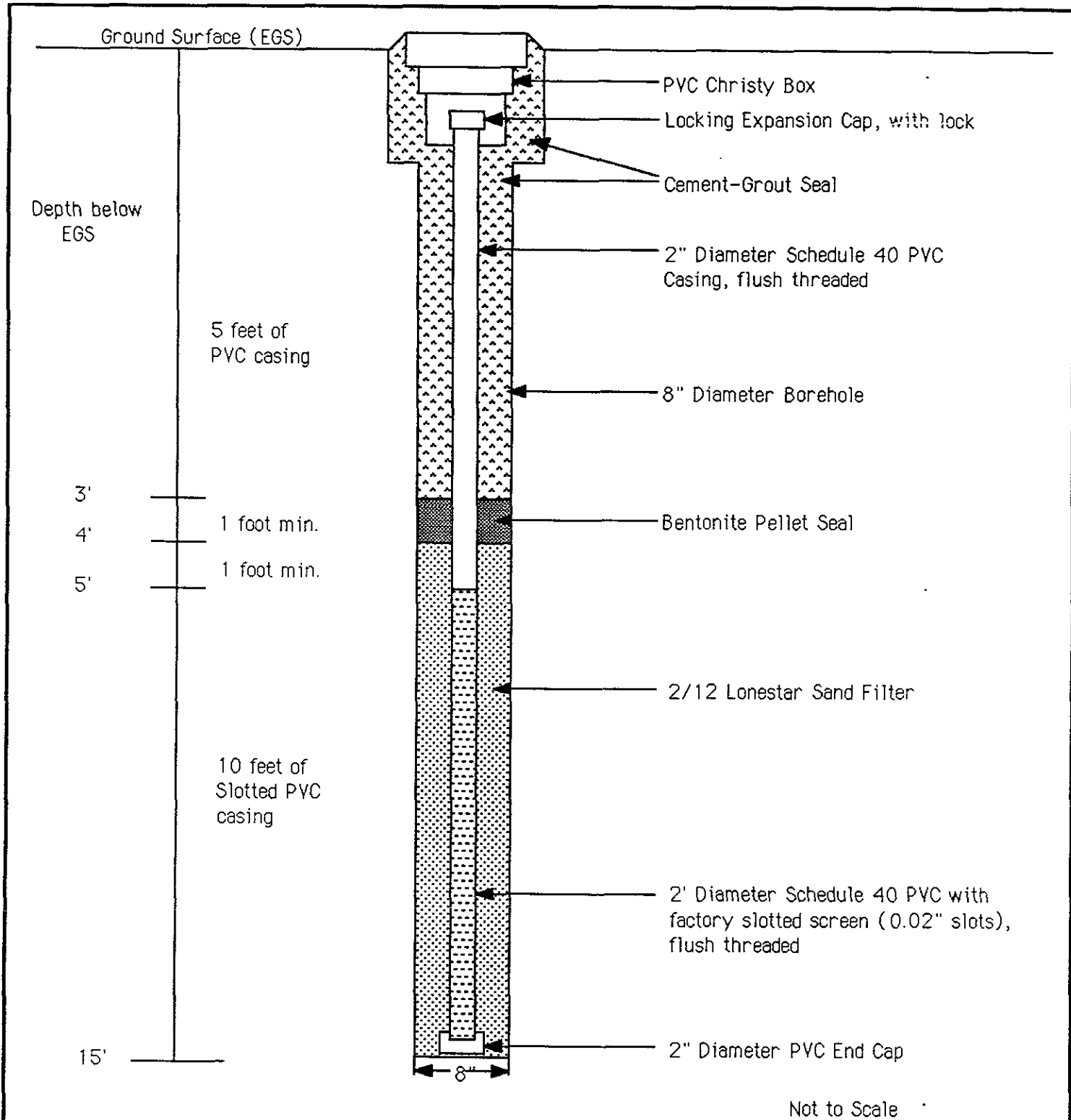
Not to Scale

ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6039-3	Schematic of Monitoring Well No.: MW-2
	Date: 1/7/93	Figure No.: <b>13</b>



ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6039-3	Schematic of Monitoring Well No.: MW-3
	Date: 1/7/93	Figure No.: <b>14</b>





ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6039-3	Schematic of Monitoring Well No.: MW-2a
	Date: 1/7/93	Figure No.: <b>15</b>

**EXHIBIT A**





# Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

## ANALYTICAL REPORT

Page: 1 of 1

\*\*\*\*\*

Client: ACC Environmental  
1000 Atlantic Ave.  
Alameda, CA 94501  
Attn: Misty Kaltreider

Date Sampled: 12/23/92  
Date Received: 12/28/92  
Date Analyzed: 12/28/92  
Batch:SD-057 Matrix: Soil  
Conc. Unit mg/kg(ppm)

Project: 2425 Encinal

\*\*\*\*\*

"ND" means "not detected" at indicated detection limit.  
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.  
Samples received chilled with a chain of custody record.

SAMPLE I.D.	Total Lead
<b>DETECTION LIMIT</b>	
	1 ppm
B1-10.5'	
B1-16'	
B2-10'	22
B2-14'	
B3-5.5'	
B3-10.5'	ND
B4-5.5'	5
B4-15.5'	
B5-5'	

Reviewed and approved by George Tsai Dec. 28, 1992  
George Tsai, Laboratory Director

**TESTS REQUIRED**

<b>CLIENT</b> <u>ACC Environmental</u>		<b>PROJECT NAME</b> <u>2425 Encinal</u>	
<b>ADDRESS</b> <u>1000 ATLANTIC Ave Suite 110</u> <u>Alameda, CA 95116</u>		<b>PROJECT MANAGER</b> <u>M. Kaltreider</u>	
		<b>PHONE NUMBER</b> <u>(510) 522-8188</u>	

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX			NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead	Archive	
				AIR	WATER	SOIL										
B1-5.5		12/23/92				X	1									HOLD
B1-10.5										X	X					
B1-16										X	X					
B2-6.5																Hold.
B2-10										X	X		X			
B2-14										X	X					
B3-5.5										X	X					
B3-10.5										X	X		X			
B3-15.5																Hold
B4-5.5										X	X		X			

Sampled/Relinquished by: <u>Misa Kaltreider</u>	Received by: <u>Amelia Garza</u>	Date <u>12-28-92</u>	Time <u>9:30</u>
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time
Turnaround time: 24 hr.      48 hr.      Normal (3-5 days)	Special Instructions:		

**TESTS REQUIRED**

<b>CLIENT</b> <u>ACC Environmental</u>		<b>PROJECT NAME</b> <u>2425 Encinal</u>		418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead	Archive
<b>ADDRESS</b> <u>1000 ATLANTIC AVENUE</u>		<b>PROJECT MANAGER</b> <u>M. KATREIDER</u>									
<u>ALAMEDA, CA. 95114</u>		<b>PHONE NUMBER</b> <u>(510) 522-8188</u>									

SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX			NO. OF CTNR	418.1/TRPH	8010 (601)	8015 E/TPH-diesel	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead	Archive
				AIR	WATER	SOIL									
B4-10.5		12/23/92				X	1								
B4-15.5											X	X			Hokl
B5-5											X	X			

Sampled/Relinquished by: <u>Misty Katreider</u>	Received by: <u>Amelia Garcia</u>	Date: <u>12-28-92</u>	Time: <u>9:30</u>
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by:	Date:	Time:
Turnaround time: 24 hr.      48 hr.      Normal (3-5 days)	Special Instructions:		



# Geochem ENVIRONMENTAL LABORATORIES

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## ANALYTICAL REPORT

Page: 1 of 1

\*\*\*\*\*

Client: ACC Environmental  
1000 Atlantic Ave.  
Alameda, CA 94501  
Attn: Misty Kaltreider

Date Sampled: 01/06/93  
Date Received: 01/07/93  
Date Analyzed: 01/07/93  
Batch:SD-066 Matrix: Soil  
Conc. Unit ug/kg(ppb)

Project: 2425 Encinal

\*\*\*\*\*

"ND" means "not detected" at indicated detection limit.  
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.  
Samples received chilled with a chain of custody record.

SAMPLE I.D.	8015M/TPH	8020			
	Gasoline	B	T	E	X
	50 ppb	0.5 ppb			
MW-2A-7'	24590	768.2	584.9	566.8	1063.0
MW-2A-15'	7890	473.1	371.4	256.2	495.2

Reviewed and approved by

JAN. 07, 1993

George Tsai, Laboratory Director

**TESTS REQUIRED**

<b>CLIENT</b> ACC Environmental			<b>PROJECT NAME</b> 2425 Encinal				418.1/TRPH	8010 (601)	8015 E/TPH-diesel <sup>W</sup>	8015 M/TPH-gasoline	8020 (602) BTEX	7420/Total Lead	Organic Lead			Archive	
<b>ADDRESS</b> 1000 ATLANTIC AVENUE			<b>PROJECT MANAGER</b> M. Koltreider														
Suite 110 Alameda, CA 94501			<b>PHONE NUMBER</b> (510) 522-8198														
SAMPLE I.D.	LOCATION DESCRIPTION	DATE	TIME	MATRIX			NO. OF CTNR										
				AIR	WATER	SOIL											
MW-2a-7'	grab sample	1/6/93				X	1			X	X						
MW-2a-15'	11					X	1			X	X						

Sampled/Relinquished by: <i>Misty Koltreider</i>	Received by: <i>[Signature]</i>	Date <i>01/07/93</i>	Time <i>9:00 am</i>
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received by:	Date	Time
Turnaround time: 24 hr.      48 hr. <u>Normal (3-5 days)</u>	Special Instructions:		





# Geochem ENVIRONMENTAL LABORATORIES

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## ANALYTICAL REPORT

Page: 1 of 1

\*\*\*\*\*

Client: ACC Environmental  
1000 Atlantic Ave.  
Alameda, CA 94501  
Attn: Misty Kaltreider

Date Sampled: 01/09/93  
Date Received: 01/11/93  
Date Analyzed: 01/13/93  
Batch:SD-068 Matrix: Water  
Conc. Unit ug/kg(ppb)

Project: 2425 Encinal

\*\*\*\*\*

"ND" means "not detected" at indicated detection limit.

B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.

Samples received chilled with a chain of custody record.

SAMPLE I.D.	8015M/TPH	602			
	Gasoline	B	T	E	X
		/	/	/	/
<b>DETECTION LIMIT</b>	50 ppb				
MW-1	5360	1560.0/	1026.6 /	641.0 /	2606.2
MW-2	5680	<del>0</del> 801.6/	598.6 /	840.2 /	2196.1
MW-3	ND	ND /	ND /	ND /	ND

Reviewed and approved by

*George Tsai*  
George Tsai, Laboratory Director

JAN. 13, 1993

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CON- TAINERS	REMARKS									
6039-3		2425 Encinal														
SAMPLERS: (Signature) <i>Carl Soane</i>																
STA. NO.	DATE	TIME	COM.	ENV.	STATION LOCATION											
MW-1	1/9/93	2:10PM		X	Grandwater	2	X									Standard turnaround
MW-2	1/9/93	2:45PM		X	"	2	X									
MW-3	1/9/93	3:10PM		X	"	2	X									

TTH gas w/ BTEX

Relinquished by: (Signature) <i>Carl Soane</i>	Date	Time	Received by: (Signature) <i>1/14/93</i> <i>ANUELA BATA</i>	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks	

**EXHIBIT B**

Well Sampling

Well Development

check one

Well Number: MW - 1

Job Number: 6039-3

Job Name: 2425 Encinal

Date: 1/9/93

Sampler: Carl Scane

2:10 PM

Depth to Water (measured from TOC): 6.75'

Inside Diameter of Casing: 2"

Depth of Boring: 15'

Method of well development/~~purgin~~ Bailing

Amount of Water Bailed/Pumped from well: 5.2 gallons

Depth to Water after well development:         

Depth to water prior to sampling: 7.10'

Bailed water stored on-site ? How ? Drum

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New rope

Water Appearance:

	yes	no
froth		<input checked="" type="checkbox"/>
irridescence		<input checked="" type="checkbox"/>
oil		<input checked="" type="checkbox"/>
smell	<input checked="" type="checkbox"/>	
product		<input checked="" type="checkbox"/>
other, describe		<input checked="" type="checkbox"/>

Samples Obtained:

- TPH (gasoline)
- TPH (diesel)
- TPH (motor oil)
- BTXE
- EPA 624
- EPA 625
- EPA 608
- PCBs only
- Metals
- Other, specify
- Field Blank

Gallons Removed	pH	EC	Temp
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			

Well Sampling Well Development 

check one

Well Number: MW-2Job Number: 6039-3Job Name: 2425 EncinalDate: 1/9/93Sampler: Carl Soane

2:45 PM

Depth to Water (measured from TOC): 7.06'Inside Diameter of Casing: 2"Depth of Boring: 15'Method of well development/purging: BailingAmount of Water Bailed/Pumped from well: ~ 5.2 gallonsDepth to Water after well development: —Depth to water prior to sampling: 8.00'Bailed water stored on-site ? How ? DrumNumber of well volumes removed: 4TSP wash, distilled rinse, new rope ? New rope

## Water Appearance:

	yes	no
froth		<input checked="" type="checkbox"/>
irridescence		<input checked="" type="checkbox"/>
oil		<input checked="" type="checkbox"/>
smell	<input checked="" type="checkbox"/>	
product		<input checked="" type="checkbox"/>
other, describe		<input checked="" type="checkbox"/>

## Samples Obtained:

TPH (gasoline)   
 TPH (diesel)   
 TPH (motor oil)   
 BTXE   
 EPA 624  
 EPA 625  
 EPA 608  
 PCBs only  
 Metals  
 Other, specify  
 Field Blank

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Gallons Removed	pH	EC	Temp
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			

Well Sampling  Well Development  check one

Well Number: MW-3

3:10 PM

Job Number: 6039-3

Job Name: 2425 Encinal Ave.

Date: 1/9/93

Sampler: Carl Soane

Depth to Water (measured from TOC): 6.68'

Inside Diameter of Casing: 2"

Depth of Boring: 15'

Method of well development/purging: Bailing

Amount of Water Bailed/Pumped from well: 5.2 gallons

Depth to Water after well development: —

Depth to water prior to sampling: 7.60'

Bailed water stored on-site ? How ? Drum

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New rope

Water Appearance:

	yes	no
froth		<input checked="" type="checkbox"/>
irridescence		<input checked="" type="checkbox"/>
oil		<input checked="" type="checkbox"/>
smell	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> gas
product		<input checked="" type="checkbox"/>
other, describe		<input checked="" type="checkbox"/>

Gallons Removed	pH	EC	Temp
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			

Samples Obtained:

- TPH (gasoline)
- TPH (diesel)
- TPH (motor oil)
- BTXE
- EPA 624
- EPA 625
- EPA 608
- PCBs only
- Metals
- Other, specify
- Field Blank

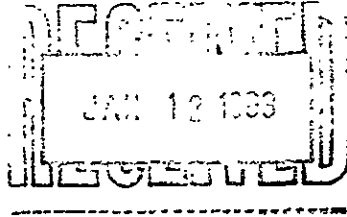
**EXHIBIT C**

# RON ARCHER

CIVIL ENGINEER, INC.

CONSULTING • PLANNING • DESIGN • SURVEYING

4133 Mohr Ave., Suite E • Pleasanton, CA 94566  
(510) 462-9372



JANUARY 8, 1993

JOB NO. 1986

ELEVATIONS OF EXISTING MONITOR WELLS AT THE ALAMEDA CELLARS LIQUOR STORE, LOCATED AT 2425 ENCINAL AVENUE AT PARK AVENUE CITY OF ALAMEDA, ALAMEDA COUNTY, CALIFORNIA

FOR: ACC ENVIRONMENTAL CONSULTANTS, INC.  
PROJECT NO. 6039-3

BENCHMARK:

A FOUND BRASS PLUG SET IN TOP OF CURB AT MID RETURN AT THE NORTHWESTERLY CORNER OF INTERSECTION OF PARK AVENUE AND ENCINAL AVENUE. ELEVATION TAKEN AS 27.63 M.S.L.

MONITOR WELL DATA TABLE

WELL DESIGNATION	ELEV	DESCRIPTION
MW1	27.78 28.06	TOP OF PVC CASING TOP OF BOX
MW2	28.17 28.76	TOP OF PVC CASING TOP OF BOX
MW3	27.89 28.04	TOP OF PVC CASING TOP OF BOX
BH	28.25	GROUND



**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

**STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)**

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