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REPORT OF SUBSURFACE INVESTIGATION

P. 1200 P. 120

RODDING-CLEANING SERVICE 2585 Nicholson Street San Leandro, CA

July 29, 1992

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ATTACHMENT B -- Sieve Analysis.

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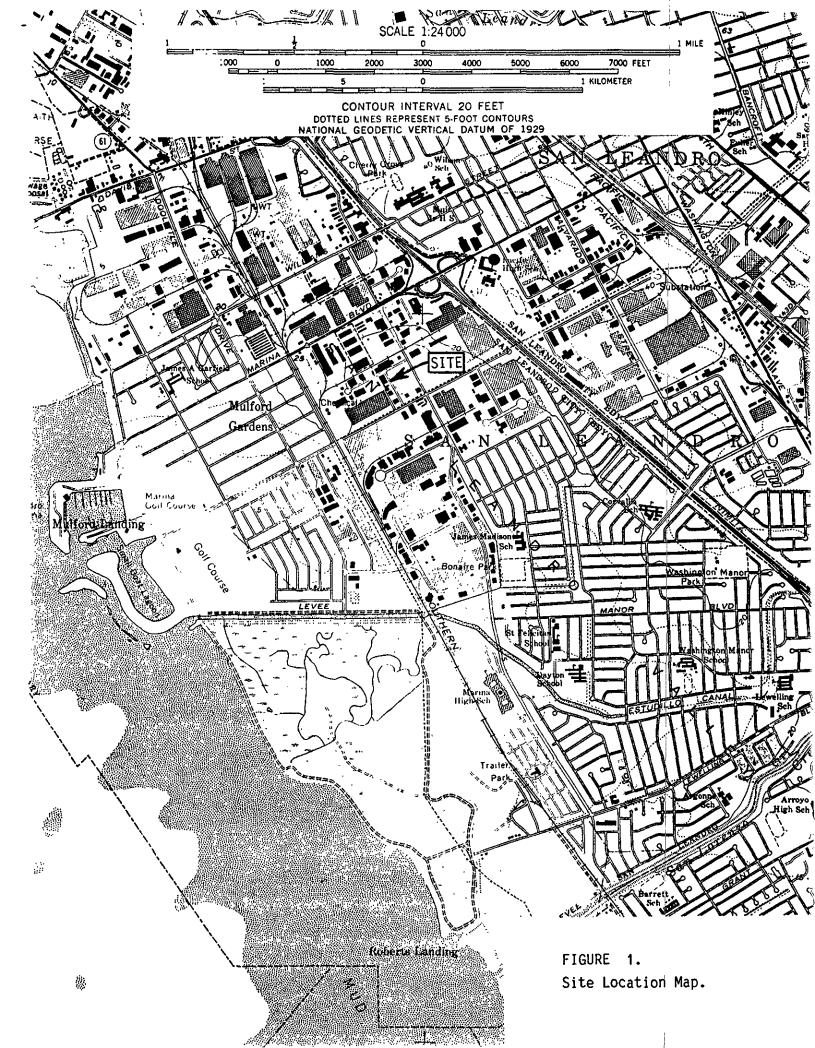
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#### I. INTRODUCTION

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).

The scope of work undertaken by Hageman-Aguiar, Inc., involved 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, 2) the utilization of an on-site mobile laboratory in order to provide immediate laboratory data in the field during the soil investigation, 3) the backfilling of the existing underground tank excavation, and 4) the installation of one shallow groundwater monitoring at the perceived down-gradient location.



### II. SITE DESCRIPTION

### Hydrogeologic Setting

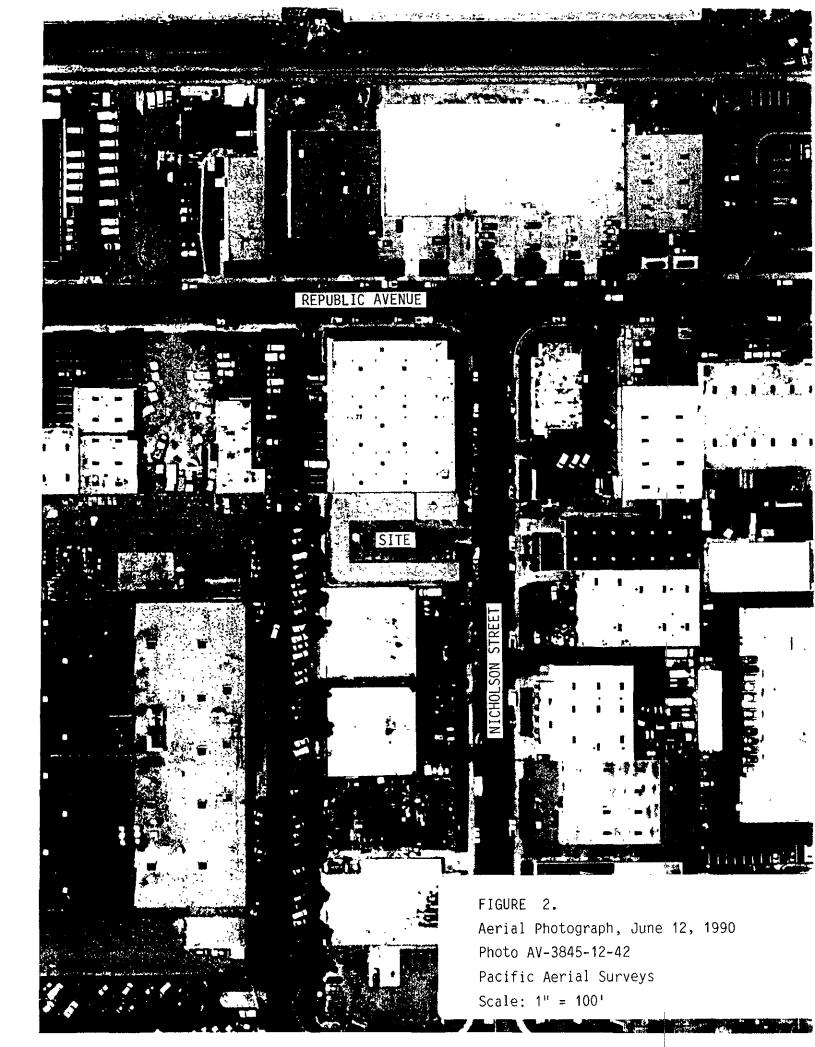
The soils beneath the site consist of Quaternary Alluvium overlying Franciscan bedrock (Geologic Map of California, San Francisco Sheet, State of California Division of Mines and Geology, 1980). Bedrock is likely to occur at a depth of greater than 50 feet beneath the site. On this portion of the low-lying Bay Plain in close proximity to San Francisco Bay, the soils beneath the site can be expected to consist primarily of fine grain soils (silts and clays), with the majority of shallow groundwater movement occurring in thin sand and gravel layers and/or "stringers".

Based upon the surface topography, as well as the various hydrologic features shown on the vicinity map, the general regional shallow groundwater can be expected to flow from the San Leandro Hills (area of groundwater recharge) and move southwesterly toward San Francisco Bay (area of discharge).

#### Site Description

Figure 2 is an aerial photograph of the property and surrounding area taken by Pacific Aerial Surveys, Oakland, California, on June 12, 1990. This photograph shows the condition of the subject site at the time of this most recent subsurface investigation, along with the locations of buildings on various neighboring properties.

A map of the site is shown in Figure 3. This map shows the



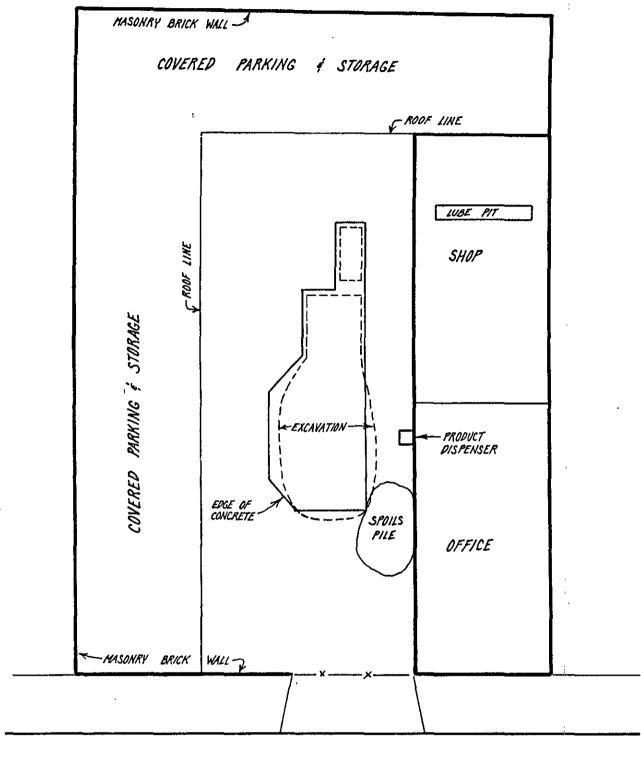




FIGURE 3. Site Map Showing Layout Prior to Subsurface Investigation.

layout of the facility, along with the location of the previous tank excavation. At the present time, the entire site is covered by concrete pavement.

#### III. SOIL INVESTIGATION

### Soil Sampling

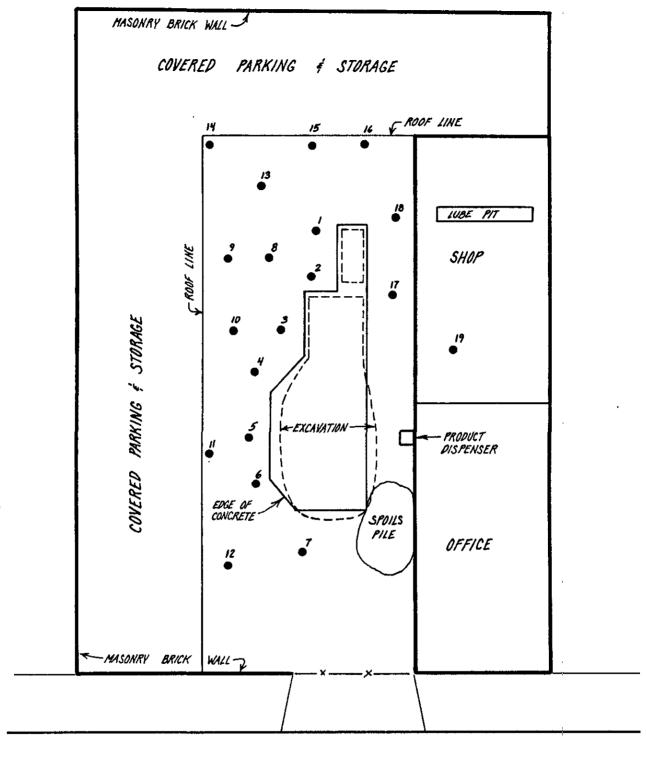
On May 15, 1992, nineteen soil borings were drilled on the property. The locations of the soil borings are shown on Figure 4.

Borings B-1 through B-18 were drilled by KL Drilling of Alameda, California, with a trailer-mounted drill rig using 4-inch solid stem augers. Due to access problems, boring B-19 was hand-augered by Hageman-Aguiar personnel. At each soil boring location, soil samples for chemical analyses were collected at the 4- and 6-foot depths by driving a split-barrel sampler fitted with brass liners. All samples were immediately brought to the on-site mobile laboratory where the sample was logged in for immediate commencement of sample extraction prior to IR analysis for Total Recoverable Hydrocarbons.

### Boring Logs

The soil sampling operation was conducted under the supervision of Gary Aguiar (Registered Civil Engineer #34262). The boring logs are included as Attachment A.

As shown by the boring logs, the site is underlain by large amounts of clay. Shallow Groundwater was encountered in each of the borings at a depth of approximately 6.5 feet below the ground surface. The shallow groundwater appeared to be present in a sand & gravel layer that began somewhere near the 6-foot depth. A sieve analysis was performed on a



NICHOLSON STREET

FIGURE 4. Locations of Soil Borings.

composite sample of aquifer material from the various soil borings. The results of the analysis are presented in Attachment B.

### Borehole Sealing

Following the completion of the soil sampling operation, each boring was filled with neat cement grout.

## Results of Field Analyses

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures (Priority Environmental Laboratory, Milpitas, California). All soil samples collected during the subsurface investigation field operations were immediately analyzed in an on-site mobile laboratory for Total Recoverable Hydrocarbons by infrared spectroscopy (EPA Method 418.1).

The results of the soil sampling are presented in Tables 1. As shown in Table 1, the results of field laboratory analysis of samples collected from the soil borings indicated the presence of Total Recoverable Hydrocarbons at concentrations of up to 16,000 mg/kg (ppm).

### Results of Laboratory Analysis

Following the completion of the field work, all of the soil samples were transported under chain of custody to the

TABLE 1.

Soil Sampling Results

## EPA Method 418.1 (Infrared Spectroscopy)

Boring	Depth (feet)	Total Recoverable Hydrocarbons (mg/kg)		
B-1	4 6	100 5,800		
B-2	4 6	250 11,000		
B-3	4 6	ND 5,600		
B-4	4 6	260 9,500		
B-5	4 6	ND 4,200		
B-6	4 6	59 1,800		
B-7	4 6	280 1,300		
DETECT	ION LIMIT	50		

TABLE 1 (continued)

## Soil Sampling Results

Boring	Depth (feet)	Total Recoverable Hydrocarbons (mg/kg)			
B-8	4 6	170 7,100			
B-9	4 6	230 6,600			
B-10	4 6	ND 9,900			
B-11	4 6	490 3,800			
B-12	4 6	ND 1,800			
B-13	4 6	ND ••••16;000°			
B-14	4 6	ND 7,500			
DETECT	TON LIMIT	50			

## TABLE 1 (continued)

## Soil Sampling Results

Boring	Depth (feet)	Total Recoverable Hydrocarbons (mg/kg)
B-15	4 6	ND 4,200
B-16	4 6	ND 3,400
B-17	4 6	ND 2,900
B-18	4 6	ND 2,800
B-19	4 6	300 2,000
DETEC1	TION LIMIT	50

laboratory. Based upon the results of the field analyses, seven selected soil samples were analyzed by gas chromatography (EPA Method 8015) for Total Extractable Petroleum Hydrocarbons, Total Petroleum Hydrocarbons as Gasoline, Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

As shown in Table 2, the concentrations of Gasoline found in the various samples coincide closely with the concentrations of Total Recoverable Hydrocarbons determined in the field.

## Data Analysis

Figure 5 shows lines of equal concentration of Total Recoverable Hydrocarbons in the subsurface soils beneath the site at the 4-foot depth. These data are indicative of concentrations of petroleum hydrocarbons in the soil above the shallow groundwater table (unsaturated zone). As shown in Figure 5, the soil concentrations are obviously centered around the locations of the former underground tanks, and have apparently migrated lateraly out in the unsaturated zone up to 20 feet from the previous tank locations. It should be noted that the Total Recoverable Hydrocarbons concentrations at this depth appear to be only somewhat elevated, with the highest value being 490 mg/kg (ppm) at the location of boring B-11.

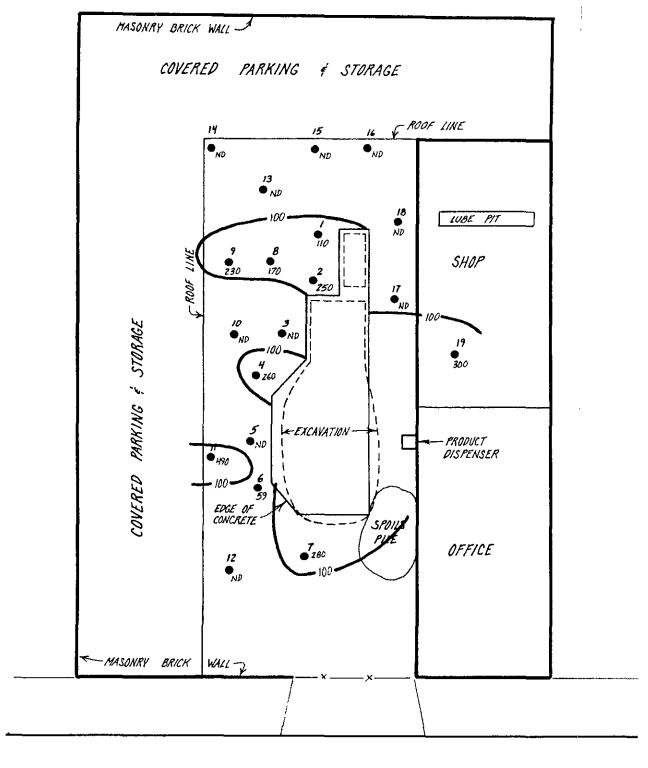
Figure 6 shows lines of equal concentration of Total Recoverable Hydrocarbons in the subsurface soils beneath the site at the 6-foot depth. These data indicate significant Petroleum concentrations in the soil at the 6-foot depth, corresponding to a location immediately above the shallow groundwater table. The plot suggests that the Petroleum

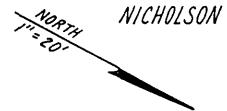
TABLE 2.

Analysis by Gas Chromatography (EPA method 8015 and 8020)

Boring	Depth (feet)	Total Recoverable Petroleum Hydrocarbons (mg/Kg)	TPH as Gasoline (mg/Kg)	TPH as Kerosene (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl- benzene (ug/Kg)	Total Xylenes (ug/Kg)	Motor Oil (mg/Kg)
B-2	4	250	270	ND	8.6	1,300	1,700	1,800	4,900	ND
B-6	4	59	280	ND	ND	780	1,000	1,000	3,900	ND
B-7	4	280	340	ND	280	1,500	1,900	1,600	6,200	ND
B-8	4	170	240	ND	ND	950	1,200	1,300	4,700	ND
B-9	4	230	230	ND	17	1,200	1,600	1,700	6,200	ND
B-11	4	490	360	ND	86	600	1,200	1,500	5,100	ND
B-19	4	300	440	ND	40	680	1,200	1,600	6,300	ND
Detection Limit		50	1.0	1.0	1.0	5.0	<del>5.0</del>	<del>5.0</del>	-5.0	10

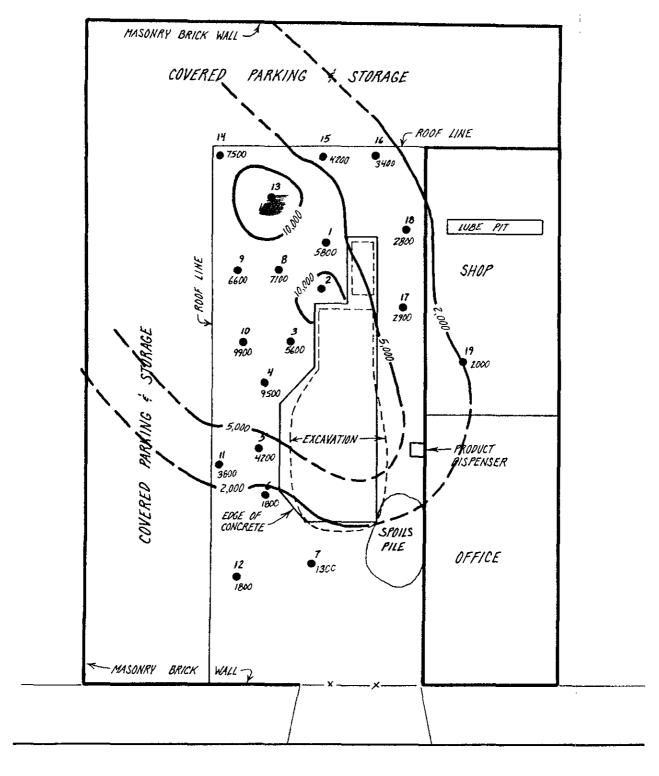
ND = Not Detected

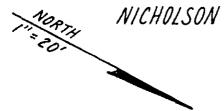




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FIGURE 5. Lines of Equal Concentration of Total Recoverable Hydrocarbons in mg/Kg (ppm) in the sound at 4-foot Depth.





## STREET

FIGURE 6. Lines of Equal Concentration of Total Recoverable Hydrocarbons in mg/Kg (ppm) in the Soil at 6-foot Depth.

Hydrocarbon concentrations are centered around the locations of the former underground storage tanks, and that the concentrations have "spread out" toward the south, consistent with the mechanism of longitudinal dispersion in the direction of the shallow groundwater flow. The data clearly indicate a well-defined plume of petroleum concentrations migrating to the south, either floating on top of, or dissolved within the shallow groundwater. Any free-product migration can be expected to occur within the capillary fringe above the shallow water table.

### Waste Generation

All drill cuttings were stockpiled on-site and covered with plastic sheeting, until the results of laboratory analyses were obtained. The disposal of the drill cuttings were the responsibility of the property owner (waste generator), and beyond the scope of work as described in this report.

#### IV. EXCAVATION BACKFILL

Following the soil investigation, it appeared that further excavation around the tank pit would not be practical due to the apparently extensive down-gradient migration of petroleum concentrations, either floating on top of, or dissolved within the shallow groundwater. In addition, the petroleum hydrocarbons concentrations within the unsaturated zone immediately adjacent to the tank excavation appeared to be only somewhat elevated.

On May 26, 1992, the excavation was backfilled with pea gravel. The backfill was capped with approximately one foot of Class II base rock, followed by concrete pavement.

#### V. GROUNDWATER INVESTIGATION

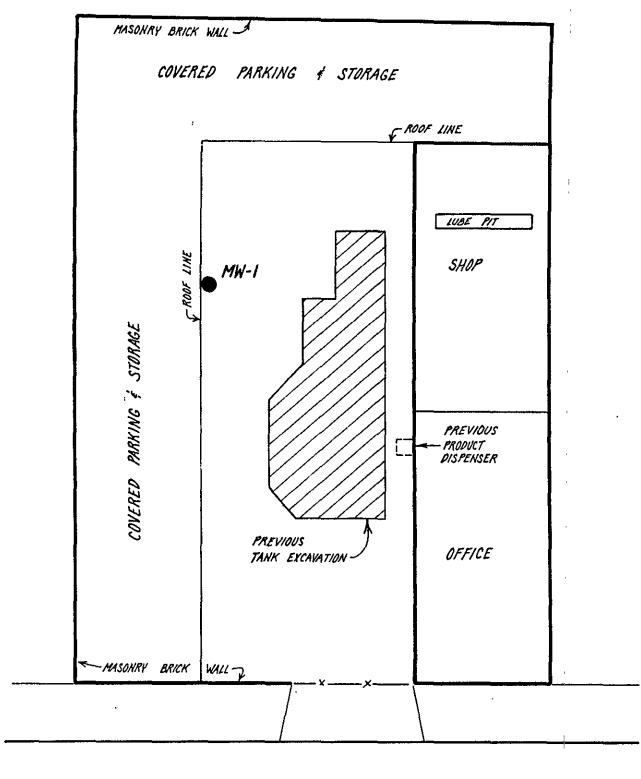
### Monitoring Well Installation

The location of the monitoring well is shown in Figure 7. The location was selected based upon the expected shallow groundwater flow direction, based both upon the expected regional hydrogeology and the results of the previous soil sampling program (delineation of contaminant plume).

On June 2, 1992, the shallow groundwater monitoring wells were installed on the site (well MW-1). The well was installed with a truck-mounted drill rig using 12-inch hollow-stem augers. The borings were drilled by Gregg Drilling, Concord, CA. During the drilling for the monitoring wells, soil samples for chemical analyses were collected at 5-foot intervals until a saturated zone was encountered. The ends of one brass liner from each drive were sealed with teflon film, over which was placed a plastic end-cap. The end-cap was then sealed onto the brass tube with clean plastic adhesive tape. All samples were immediately placed on ice, then transported under chain-of-custody to the laboratory upon completion of the field work.

Well MW-1 was cased with 15 feet of 6-inch PVC slotted screen pipe (0.02" slots) and completed to a depth of 19 feet below the ground surface. The larger well casing diameter was selected in order that the well could be utilized for successful free product recovery, should the need arise.

The annular space of well MW-1 was packed with #3 Monterey sand to approximately one foot above the top of the screened section. Approximately one-half foot of wetted bentonite





pellets were placed upon the sand pack, followed by a neat cement grout seal up to the ground surface. The well was fitted with a water-tight locking cap and a water-tight steel traffic lid.

A well construction diagram for the monitoring well is included in Attachment D. Also included in Attachment D is a copy of the well permit issued by Zone-7, Alameda County Flood Control and Water Conservation District.

### Boring Log

The monitoring well boring was logged in the field by Gary Aguiar, Registered Civil Engineer #34262. The boring log for monitoring well MW-1 is shown as Figure 8.

### Monitoring Well Sampling

On June 4, 1992, the newly installed monitoring well MW+1 was developed. During the development of the well, groundwater was pumped using a stainless steel air-lift pump and a 4" PVC hand bailer. During the well development, the well was periodically surged using the hand bailer in am attempt to remove silt and thereby achieve good well development.

Prior to groundwater sampling on June 8, 1992, the well was purged by bailing approximately 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

	0	BLOW COUNT	SAMPLE	uscs	DESCRIPTION	WELL CONST.		
	0 — 2 — 4 — 6 —	6 9 11 5 60			CONCRETE / BASEROCK  DK GREY CLAY (CL), moderately soft, sl silty, occasional coarse sand.  DK BRN CLAY (CL), dense, moderately silty, occasional sub-angular gravel to 1/4".  Gasoline odon  BRN CLAYEY SAND (SC), saturated, loose, very clayey, sand fine to medium gr.  6-8-92	OAd		
<b>-</b>	8 <b>-</b> 10 <b>-</b> 12 <b>-</b>	6 7 12					DK BRN CLAY (CL), slightly moist, sl crumbly, moderate plasticity.	
DEPTH IN FEET	14 <b>-</b>	7 12 14			LT BRN SANDY CLAY (CL), slightly moist, stiff, moderately sandy, sand fine to medium grain. (no odor)	- :		
<u> </u>	18 <b>-</b>	5 3 12			SAME, slightly darker color, slightly moist, moderate plasticity, occasional coarse sand.  (no odor)	- :		
	22 -	4	TOTAL DEPTH = 20.5' BLS					
	24 -							
	26 <b>-</b>							
	28 -							
	30 -							
НАС	HAGEMAN - AGUIAR, INC.			÷.	LOG OF MONITORING WELL MW-1 Rodding-Cleaning Service 2585 Nicholson Street, San Leandro, CA	FIGUR		
ATE June 2, 1992					PROJECT NO.	1		

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 samples were placed inside appropriate 40 mL VOA vials and 1 liter amber bottles free of any headspace. The samples were immediately placed on crushed ice, then transported under chain-of-custody to Priority Environmental Laboratory in Milpitas by 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.

Copies of the monitoring development and sampling logs are included as Attachment E.

### Water Level Measurement.

The shallow groundwater elevation in MW-1 was measured as 6.62 feet below ground surface on June 8, 1992.

### **Decontamination**

Prior to the installation of each well, all drilling equipment, including augers, drill stem, and split barrel samplers, was steam-cleaned.

### Waste Generation

All drill cuttings were stockpiled on-site and covered with plastic sheeting, until the results of laboratory analyses were obtained. The disposal of the drill cuttings were the responsibility of the property owner (waste generator), and beyond the scope of work as described in this report.

All water removed from the wells during development and purging was drummed and stored on-site until the results of laboratory analyses were obtained. Based upon these results, the water should be sewered (if possible) as a non-hazardous liquid waste in accordance with local sewering agency permit requirements, or else it should be transported as a hazardous liquid waste under proper manifest to an appropriate TSD facility for treatment and disposal. The disposal of wastewater is the responsibility of the property owner (waste generator), and is beyond the scope of work as described in this report.

### Laboratory Analysis

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures.

All soil samples were analyzed for 1) Total Petroleum Hydrocarbons as Gasoline (EPA method 8015), 2) Total Extractable Petroleum Hydrocarbons (EPA method 8015) and 3) Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA method 8020).

All Groundwater samples were analyzed for 1) Total Petroleum Hydrocarbons as Gasoline (EPA method 8015), 2) Total

Petroleum Hydrocarbons as Diesel (EPA method 8015) and 3) Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA method 602).

## Analytical Results: Soil

Table 3 presents the results of the laboratory analysis of the soil samples collected during the monitoring well installation. A copy of the laboratory certificate for the soil sample analyses is included in Attachment F.

As shown in Table 3, there appears to be significant Gasoline concentrations in the soil at the 6-foot depth, corresponding to a location immediately above the shallow groundwater table. TPH as Gasoline and Benzene were detected in the soil at concentrations of 11,000 mg/kg (ppm) and 32,000  $\mu$ g/kg (ppb), respectively. These concentrations are indicative of down-gradient migration of Gasoline contamination from the previous underground storage tank locations.

TPH as Diesel was detected in the soil at the 6-foot depth at a concentration of 190 mg/kg (ppm).

### Analytical Results: Groundwater

Table 4 presents the results of the laboratory analysis of the groundwater sample collected from monitoring well MW-1. A copy of the laboratory certificate for the water sample analyses is included in Attachment F.

As shown in Table 4, Gasoline was detected in the sample: collected from well MW-1 at the concentration of 10,000  $\mu g/L$ 

TABLE 3.
Soil Sampling Results

(Monitoring Well Installation)

Boring	Depth (feet)	TPH as Gasoline (mg/Kg)	TPH as Kerosene (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl- benzene (ug/Kg)	Total Xylenes (ug/Kg)	Motor Oil (mg/Kg)	Oil & Grease (mg/Kg)	
MW-1	4 6	18 11,000	ND ND	ND 190	200 32,000	180 59,000	22 44,000	760 17,000	ND ND	ND ND	
Detection Limit		1.0	1.0	1.0	5.0	5.0	5.0	5.0	10	10	

ND = Not Detected

TABLE 4.

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	MW-1 06-08-92		10,000	110	81	62	280
Detection	on Limit	50	0.5	0.5	0.5	0.5	0.5

ND = not detected

(ppb). In addition, Benzene was detected in the sample collected from well MW-1 at a concentration of 110  $\mu g/L$  (ppb).

As shown in Table 4, no detectable concentration of Diesel was found in the shallow groundwater sample.

#### VI. CONCLUSIONS

- 1. Shallow groundwater is present beneath the site at a depth of approximately 6.5 feet below the ground surface.
- 2. The Total Recoverable Hydrocarbon concentration data collected during the soil investigation clearly indicate a well-defined plume of petroleum concentrations migrating to the south, either floating on top of, or dissolved within the shallow groundwater.
- 3. The Total Recoverable Hydrocarbon concentration data (plume definition) indicate that the shallow groundwater flow beneath the site is in the southerly direction.
- 4. TPH as Gasoline was detected in the shallow groundwater sample collected from well MW-1 at the concentration of 10,000  $\mu$ g/L (ppb).
- 5. Benzene was detected in the shallow groundwater sample collected from well MW-1 at a concentration of 110  $\mu$ g/L (ppb).
- 6. No detectable concentration of Diesel was found in the shallow groundwater sample collected from well MW-1.

REPORT OF SUBSURFACE INVESTIGATION RODDING-CLEANING SERVICE 2585 Nicholson Street, San Leandro, CA.

July 29, 1992

Bruce Hageman

No. C-34262

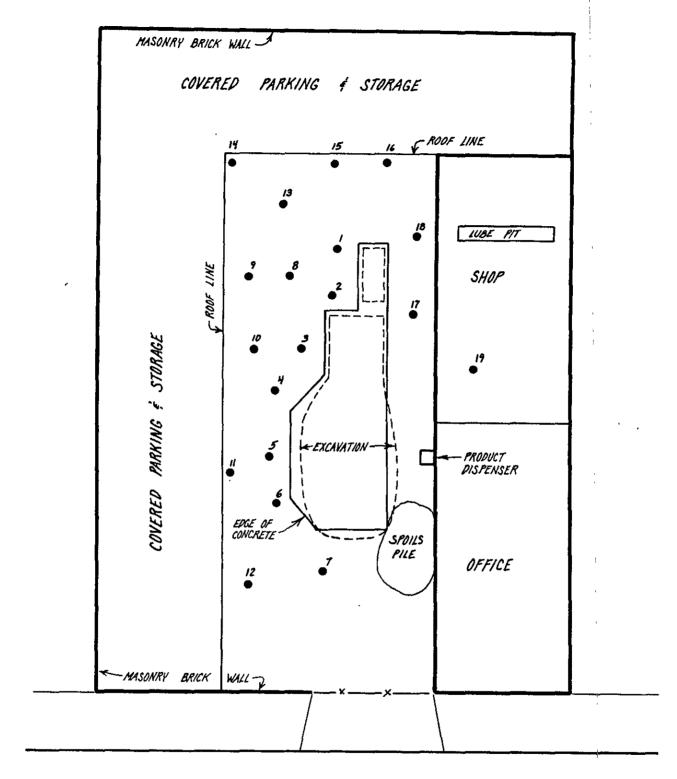
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# ATTACHMENT A

BORING LOGS



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HAGEMAN - AGUIAR, INC.

LOC	MOITA	OF BO	RING				PROJECT NAME & LOCATION
	OPP	OTME	MAD				RODDING CLEANING, 2585 NICHOLSON ST. SAN LEANDR
	5EE	SITE	MAP				DRILLING METHOD:  6" SOLID STEM AUGER  B - 2
							6" SOLID STEM AUGER B - 2  CME - 45 DRILL RIG SHT
							CME - 45 DRILL RIG SHT SAMPLING METHOD: 1 of 1
							2" SPLIT BARREL SAMPLER DRILLING
							WITH BRASS LINERS START FINISH
							WATER LEVEL TIME TIME
							TIME 0800 0815
							DATE DATE DATE
	<del></del>	<del></del>	T	SC	ALE:	1" =	CASING DEPTH   SCREEN   5/15/92 5/15
SAMPLER	8 7	inches RECOVER	BLOW	m	王叔		SURFACE CONDITIONS:
<u>~</u>	inches DRIVEN	1 ಕೈ ನ	COUNT	TIME	DEPTH In feet	nscs	
SA	흔늄	'ਦੁ ਨੈਂ	per 6 inches	-	2 2	l s	
		-	oinches	+	ļ	ļ. <u></u>	
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			İ	1	1	4	DK BRN CLAY (CL), SLIGHTLY MOIST, STIFF.
			ļ	+	<b>╎</b>	1	OCCASIONAL SUB-ANGULAR GRAVEL TO 1/2"
	•	}			2	1	
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					3	<del> </del>	SAME & CONTROL DETROIS DUALS COLDURANT
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Z" SPLIT	1/8	18	5/10/8	0807	4	4 1	
			7.70	0001	1 Г		
		ļ		1	5	7	GREY BRN CLAYEY SILT (ML), MOIST
2"	•		, ,	<del> </del>	اء	11_	DAL DIN CONTEN STELL THEIR TWIST
2" Split	18	18	5/8/6	08/2	6	4	GREY SAND & GRAVEL (GW), SATURATED.
					7		ONE STORY BRANCE (BW); SHIVING
				į.	<b>'</b> †	1	(STNONE CASOUNE TODOR)
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-							DRILLING METHOD:	BORING
Ì							6" SOLID STEM AUGER	B- 3
							CME - 45 DRILL RIG	SHT
							SAMPLING METHOD:	1 of 1
							2" SPLIT BARREL SAMPLER	DRILLING
}							WITH BRASS LINERS WATER LEVEL	START FINISH
ł							TIME	TIME TIME
Ĭ							DATE	0815 0825
				SC	CALE:	1" =	CASING DEPTH SCREEN	DATE DATE 5/15/92 5/15/92
ıτ		<u>~</u>	BLOW			T	SURFACE CONDITIONS:	15, 25, 12 5, 25 5.
SAMPLER	inches DRIVEN	inches RECOVER	COUNT	Ų	DEPTH in feet	တ္တ		- <del>  </del>
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z" SPLIT	18	18	5/8/10	0820	4			
					5	[ /	GREY BRN CLAYEY SAND (SM), MOIST,	
- 11	<u> </u>				[	n	VERY FINE GRAIN, OCCASIONAL GRAY.	EL TO 1/2"
Z" SPIT	18	18	4/8/12	0825	6	▼		
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					7	┨	DK GREY SAND & GRAVEL, SATURATE!	2
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HAGEMAN - AGUIAR, INC.

LOC	ATION E SIT	OF BO	ORING P				PROJECT NAME & LOCATION  RODDING - CLEANING, 2585 NICHOLSON ST. SAN LEAN
							DRILLING METHOD: BORING
							6" SOLID STEM AUGER B-4
l							
							CME - 45 DRILL RIG SHT SAMPLING METHOD: 1 of 1
]							2" SPLIT BARREL SAMPLER DRILLING
Ì							WITH BRASS LINERS START FINISH
							WATER LEVEL TIME TIME
}							TIME 0830 0845
İ							DATE DATE DATE
ļ				SC	ALE:	1" =	CASING DEPTH SCREEN 5/15/92 5/15/
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\		<u>u</u>	6 inches	<del>-</del>	<u> </u>	┦	
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	<u> </u>	<u> </u>			Į [	_	DK BRN CLAY (CL), NEARLY DRY, STIFF.
]					3	1_	OCCASIONAL COARSE SAND
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z" Sait	10	10	4/6/11	naun	4	] ]	
311	18	18	76/11	0840		سر ليا	GREY BRN CLAYEY SAND (SM), MOIST
		1	}		5		VERY FINE GRAIN
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2"	10	10	3/4/7		6		
SPIT	18	18	74/7	1845		Ш	GREY SAND (SP), SATURATED, FINE GRAIN,
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HAGEMAN - AGUIAR, INC.

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	SEE	SITE	MAP				RODDING - CLEANING, 2585 NICHOLSON ST. SAN LEAN
	222	0.11					DRILLING METHOD: BORING
							6" SOLID STEM AUGER B - 5
							CME - 45 DRILL RIG SAMPLING METHOD:
							2" SPLIT BARREL SAMPLER DRILLING WITH BRASS LINERS START FINISH
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HAGEMAN - AGUIAR, INC.

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ļ	SEE	211	E MAP						6" SOLID STEN	M AUGER			В –	6
<b>\</b>									CME - 45 DRII				SHT	
									SAMPLING METHO	D:	····		1 (	of 1
ĺ									2" SPLIT BAR		PT.ER			LING
I									WITH BRASS LI		прк		START	
ļ									WATER LEVEL	LNEKS	T		TIME	TIME
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i										ļ		<del></del>	0700	0915
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Z <sup>II</sup> SPLIT	18	0	LOST SAF	1PZE	6	41	•		VERY FINE	GRAIN				
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	CO 118	CTO	<b>FRAG</b>	سرمدا	7	Ц		GRE	Y SAND (SP).	SATURA	TED FI	VE GRAJ	ル、	
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HAGEMAN - AGUIAR, INC.

LOCA	ATION	OF BC	RING				PROJECT NAME & LOCATION RODDING- CLEANING, 2585 NICHOLSON S	T. SAN	LEANDR
							DRILLING METHOD:	BORING	
1							6" SOLID STEM AUGER	В-	
	SEE	SIT	e map				CME - 45 DRILL RIG	SHT	
1							SAMPLING METHOD:	-4	of 1
ţ							2" SPLIT BARREL SAMPLER	DRII	LLING
							WITH BRASS LINERS	START	FINISH
}							WATER LEVEL	TIME	TIME
l							TIME	10925	0935
						4.5	DATE	DATE	DATE
		,		SC	ALE:	1" =	CASING DEPTH SCREEN	\$/15/9:	<u> </u>
E .	" z	inches RECOVER	BLOW	1	 	1	SURFACE CONDITIONS:		
SAMPLER	inches DRIVEN		COUNT	TIME	DEPTH in feet	18		<del></del>	
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					2	]	DK BRN CLAY (CI), SLIGHTLY MOIST,	STIF	F
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SPIT	18	18	4/6/8	0930					
					5		GREY BRN CLAYEY SAND (SM), MOIST,		
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711	10	10	41-1,		6	<b>₩</b>			
SPIT	18	18	4/5/6	0935			DK GREY SAND(SP), SATURATED, COAR	SE GR	AUN
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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

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HAGEMAN - AGUIAR, INC.

# ATTACHMENT B

SIEVE ANALYSIS

SIEVE ANALYSIS

Rodding-Cleaning Service

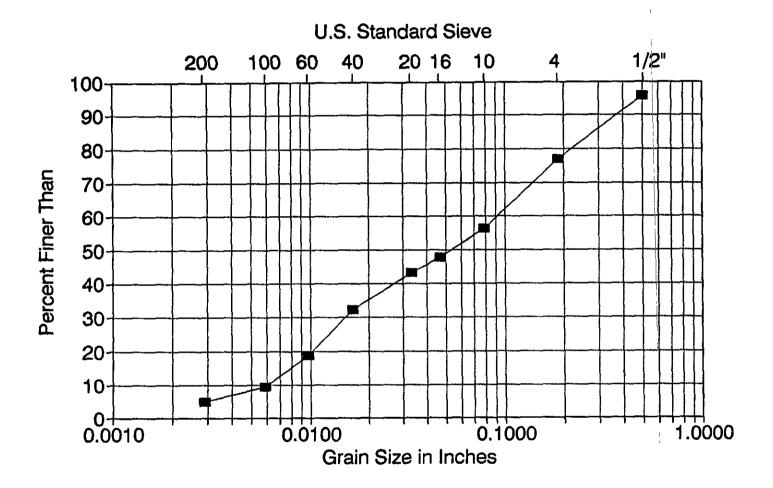
Aquifer Material at 6 feet

Sieve	Total Wt	Sieve Tare	Soil Wt	Sum	Delta	% Finer
				10 1	410 0	
1/2"	461.1	443.0	18.1	18.1	410.0	95.8
4	593.6	513.8	79.8	97.9	330.2	77.1
10	459.9	370.3	89.6	187.5	240.6	56.2
16	456.4	420.9	35.5	223.0	205.1	47.9
20	339.6	320.1	19.5	242.5	185.6	43.4
40	428.6	380.9	47.7	290.2	137.9	32.2
60	327.6	269.9	57.7	347.9	80.2	18.7
100	389.1	349.9	39.2	387.1	41.0	9.6
200	355.2	335.6	19.6	406.7	21.4	5.0
PAN	379.9	379.6	21.4	428.1	***	***

Total Wt: 601.3 Container: 173.4 Sample Wt: 427.9

# SIEVE ANALYSIS

RODDING - CLEANING, Aquifer Material at 6 feet



# ATTACHMENT C

Analytical Results: Soil Investigation



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

Date: May 16, 1992

PEL # 9205023

HAGEMAN - AGUIAR, INC.

Attn: Gary Aguiar / Jeffrey Roth

Re: Forty one soil samples for total Recoverable Hydrocarbons analysis.

Project name: Rodding Cleaning Services.

Project location: San Leandro

Date sampled: May 15, 1992 Date extracted: May 15, 1992 Date submitted: May 15, 1992 Date analyzed: May 15, 1992

#### RESULTS:

	Total ecoverable ydrocarbons (mg/Kg)	SAMPLE I.D.	Total Recoverable Hydrocarbons (mg/Kg)	SAMPLE I.D.	Total Recoverable Hydrocarbons (ug/Kg)
B 1-4' B 1-6' B 2-4' B 2-6' B 3-4' B 3-6' B 4-4' B 4-6' B 5-4' B 5-6' B 6-6' B 7-4' B 7-6'	110 5800 250 11000 N.D. 5600 260 9500 N.D. 4200 59 1800 280 1300	B 8-4' B 8-6' B 9-4' B 9-6' B 10-4' B 11-6' B 11-6' B 12-4' B 13-6' B 13-6' B 14-6'	170 7100 230 6600 N.D. 9900 490 3800 N.D. 1800 N.D. 16000 N.D. 7500	B 15-4' B 15-6' B 16-4' B 16-6' B 17-4' B 17-6' B 18-4' B 19-6' SP 1 SP 2 SP 3	N.D. 4200 N.D. 3400 N.D. 2900 N.D. 2800 300 2000 910 85 N.D.
Blank Detection limit Method of	N.D. 50 418.1				

David Duong Laboratory Director

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



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 20, 1992

PEL # 9205023

HAGEMAN - AGUIAR

Attn: Gary Aguiar / Jeffrey Roth

Re: Seven soil samples for Gasoline/BTEX and TEPH analyses.

Project name: Rodding Cleaning Services

Project location: San Leandro

Date sampled: May 15, 1992

Date extracted: May 18-20, 1992

Date submitted: May 15, 1992 Date analyzed: May 18-20, 1992

#### RESULTS:

SAMPLE	Kerosene	Gasoline	Diesel	Benzene		Ethyl !		Motor Oil
I.D.	(mg/Kg)	(mg/Kg)	(mg/Kg)	(ug/Kg)	(ug/Kg) (t			
B 2-4'	N.D.	270	8.6	1300	1700	1800	4900	N.D.
B 6-4'	N.D.	280	N.D.	780	1000	1000	3900	N.D.
B 7-4'	N.D.	340	280	1500	1900	1600	6200	N.D.
B 8-4'	N.D.	240	N.D.	950	1200	1300	4700	N.D.
B 9-4'	N.D.	230	17	1200	1600	1700	6200	N.D.
B 11-4'	N.D.	360	86	600	1200	1500	5100	N.D.
B 19-4'	N.D.	440	40	680	1200	1600	6300	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	89.9%	92.7%	85.3%	91.7%	87.6%	95.4%	91.1%	
Duplicate spiked Recovery		87.5%	102.4%	87.8%	90.2%	98.0%	101.5	t
Detection limit	1.0	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	3550 / 8015	5030 / 8015	3550 8015	/ 8020	8020	8020	8020	3550/ 8015

David Duong Laboratory Director

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

PEL# 9205023 (1 of 3)

Per Gary Aguiar 102M 5/18/92

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PEL # 9205023 (2 of 3)

INV # 22810

Pg Z of 3

SAMPLER: (Signature) PROJECT NAME AND ADDRESS: SUPERVICES **ANALYSIS** HAGEMAN - AGUIAR, INC. REQUESTED 3732 Mt. Diablo Blvd., Suite 372 Lafavette, CA 94549 (415)284-1661 (415)284-1664 (FAX) W **CROSS** 0 T REFERENCE DATE TIME STATION LOCATION REMARKS E NUMBER R SAN LEANDRO 5-15-92/000 X 11 X 11 11 DATE 5/5/2 RECEIVED BY: (Signature) DATE TIME TIME RECEIVED BY: (Signature) DATE DATE TIME TIME RECEIVED BY: (Signature) DATE DATE RELINQUISHED BY: (Signature) TIME TIME RECEIVED FOR LABORATORY BY: (Signature) DATE DATE RELINQUISHED BY: (Signature) TIME TIME

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per Gody Aguiar

10 Am 5/18/92

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# ATTACHMENT D

WELL PERMIT
WELL CONSTRUCTION DIAGRAM

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#### ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

(510) 484-2600

2 June 1992

Hageman Aguiar, Inc. 3732 Mt. Diablo Boulevard, Suite 372 Lafayette, CA 94549

#### Gentlemen:

Enclosed is drilling permit 92280 for a monitoring well construction project at 2585 Nicholson Street in San Leandro for Rodding-Cleaning Service.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield

Water Resources Engineer

raig a. marsheld

WH:mm

Enc.



# **ZONE 7 WATER AGENCY**

5997 PARKSIDE DRIVE

FOR APPLICANT TO COMPLETE

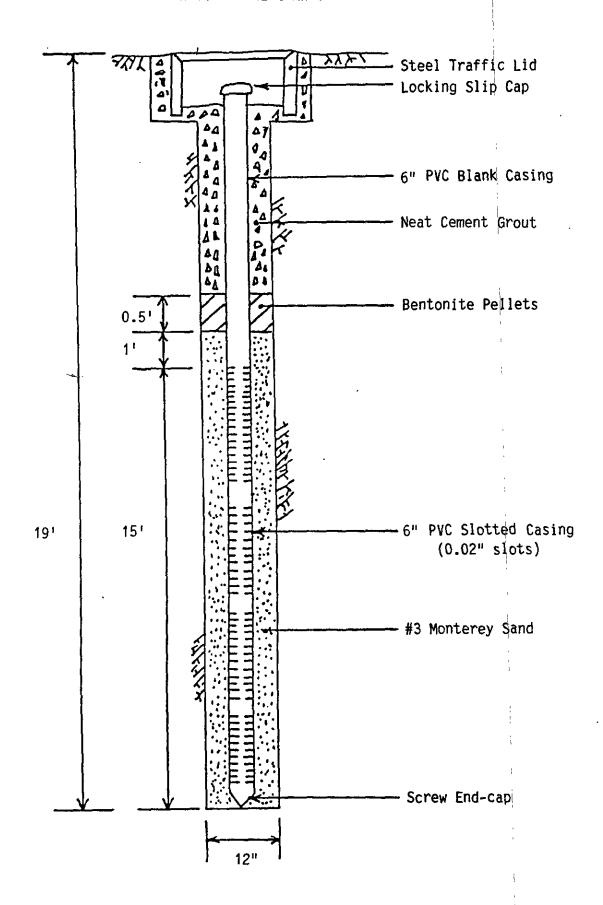
PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

FOR OFFICE USE

#### DRILLING PERMIT APPLICATION

OCATION OF PROJECT Rodding-Cleaning Service	PERMIT NUMBER 92280
2585 Nicholson Street	LOCATION NUMBER
San Leandro, CA 94577-4276	
Name Rodding-Cleaning Service Noddress 2585 Nicholson Streethone (510)357-8875	PERMIT CONDITIONS
San Leandro Zip 94577-4276	Circled Permit Requirements Apply
APPLICANT lame Hageman Aguiar, Inc. (Gary Aguiar)  3732 Mt Diablo Blvd  Address Suite 372 Phone (510)284-1661  City Lafayette, CA Zip 94549  TYPE OF PROJECT  Well Construction General  Water Supply Contamination  Monitoring X Well Destruction  PROPOSED WATER SUPPLY WELL USE  Comestic Industrial Other  Municipal Irrigation	A. GENERAL  1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.  2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.  3. Permit is void if project not begun within 90 days of approval date.  B. WATER WELLS, INCLUDING PIEZOMETERS  1. Minimum surface seal thickness is two inches of cement grout placed by tremie.  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for
ORILLING METHOD: Mud Rotary Air Rotary Auger X  Cable Other  ORILLER'S LICENSE NO. Gregg Drilling 485165  WELL PROJECTS  Drill Hole Diameter 12 in. Maximum  Casing Diameter 6 in. Depth 20 ft.  Surface Seal Depth 4 ft. Number 1	monitoring wells is the maximum depth practicable or 20 feet.  C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.  D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.  E. WELL DESTRUCTION. See attached.
Number of Borings Maximum Hole Diameter in. Depth tt.  ESTIMATED STARTING DATE STIMATED COMPLETION DATE Une 2, 1992 Destimated Comply with all requirements of this permit and Alameda County Ordinance No. 73-68.  APPLICANT'S	Approved Wyman Hong Date 1 Jun 92 Wyman Hong
SIGNATURE fam June 5/28/9	31992



ATTACHMENT E

WELL SAMPLING LOG

#### WELL DEVELOPMENT LOG

Project/No. RODING CLETINING Page 1 of 1	
Site Location 2585 NICHOLSON ST SAN LEANDRO Date 6/4/92	
Weather CLEAR 650 Completed 1105	 
EVACUATION DATA	i
Description of Measuring Point (MP) WELL Box AT GRAD	E
Total Sounded Depth of Well Below MP 18-60	!
Depth to Water Below MP <u>6,57</u> Diameter of Casing <u>6"</u>	 
Water Column in Well 12-03	
Gallons in Well During Development	
Evacuation Method AIRUFT COMPRESSOR FUMP, 4" PVC HAND BAILER.	
DEVELOPMENT / FIELD PARAMETERS	
color BRN/GRY Odor LT. HC	:
Appearance LOW-TO MED. TURBIBITY	1
FIELD REPORT:	
- A I GAL BAILER WAS USED TO	i
DISTURB THE WELL WATER AS MUCH AS	BESIDLE.
30 GAL PURGED BY AIRLIET PLANT, PLANT	was
MOVED SLOWLY THROUGH THE SCREENED	INTERVAL
OF THE WELL TO ALLOW THE SAND PACK	70
DESILTIEY AND SETTLE.	
THIS ALTERNATING PROCESS OF AGITATING WATER WITH A HAND BAILER AND PURGE FINE MATERIAL WAS REPEATED AT 60,90,	ING THE
Field Personnel 95 Gath 6/4/92	

### WELL SAMPLING LOG

Project/No. RODSING CLEANING Page 1 of 1
Site Location SAN LEANDRO Date 6-8-92
Well No. MW / Time Began 1113
Weather COmpleted 12/5
EVACUATION DATA
Description of Measuring Point (MP) WELL BOX AT GRADE
Total Sounded Depth of Well Below MP 18.58
- Depth to Water Below MP 6-62 of Casing 6
= Water Column in Well 11-96
Gallons in Casing $\frac{10}{30\%}$ + Annular Space $\frac{10}{30\%}$ = Total Gallons $\frac{50}{30\%}$
dations ranged (17)
Evacuation Method AIRLIET Pump
SAMPLING DATA / FIELD PARAMETERS
Inspection for Free Product: No APPRENT Probuct  (thickness to 0.1 inch, if any)
Time 11/3 1/22 1/50 1/58
1 30 35 55
Temperature 19.6 18.0 17.9 17.6
Conductivity <u>1300</u> <u>1150</u> <u>1250</u> <u>1200</u>
ph $\frac{7.4}{7.4} \frac{7.4}{7.3} \frac{7.3}{7.3}$
color 1 Odor CLR/HC BRN/HC GRY/HC GRY/HC
cotor / Odor CLR/HE BEN/HE BEN/HE GEY/HE Turbidity LOW MED HIGH HIGH
Comments:

# ATTACHMENT F

ANALYTICAL RESULTS:
MONITORING WELL



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

June 05, 1992

PEL # 920603

HAGEMAN - AGUIAR

Attn: Jeffrey Roth

Re: Two soil samples for Gasoline/BTEX and TEPH analyses.

Project name: Rodding Cleaning Services

Project location: 2585 Nicholson St.-San Leandro

Date sampled: June 02, 1992
Date extracted: June 03-04, 1992

Date submitted: June 02, 1992 Date analyzed: June 03-04, 1992

#### RESULTS:

SAMPLE I.D.	Kerosene	Gasoline	Diesel	Benzene	Toluene		Total	Motor
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(ug/Kg)	(ug/Kg)	Benzene (ug/Kg)		(mg/Kg)
MW-1-4'	N.D.	18	N.D.	200	180	22	760	N.D.
MW-1-6'	N.D.	11000	190	32000	59000	44000	17000	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	90.1%	92.2%	90.8%	89.8%	87.4%	83.2%	90.5%	
Detection limit	1.0	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	3550 / 8015	5030 / 8015	3550 / 8015	8020	8020	8020	8020	3550/ 8015

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Tel: 408-946-9636

Fax: 408-946-9663

INV # 22843

# CHAIN OF CUSTODY RECORD

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RODDING 2585 5AN L	ID ADDRESS: CLEA NICHOL EANDR	NING SON S O, CA	SERV T	<u>'ICE</u>	HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)				ANALYSIS REQUESTED									
CROSS REFERENCE NUMBER	DATE	TIME	n 0	W A T E R	STA	TION LOCATIO	)N			RIV			<u> </u>	_	RI	EMARK	S	
MW-1-9'	6/2/92	0725	X		BORING		4'		X	X	X					NTA	7	
MW-1-6'	92/92	0735	X		BORING	MW-1 @	6'		X	X	X				"	(.		
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# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical laboratory

June 10, 1992

PEL # 920617

HAGEMAN - AGUIAR

Jeffrey Roth

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

Project name: Rodding Cleaning Services

Project location: San Leandro

Date sampled: June 08, 1992 Date extracted: June 08-09,1992 Date submitted: June | 08, 1992

Date analyzed: June 08-09,1992

#### RESULTS:

SAMPLE I.D.  MW 1  Blank  Spiked Recovery  Detection limit  Method of	Gasoline	Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes
1.0.	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW 1	10000	N.D.	110	81	62	280
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
•	94.8%	97.3%	101.1%	105.9%	100.2%	102.4%
	50	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	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# 920617

# **CHAIN OF CUSTODY RECORD**

INV # 22854

PROJECT NAME AND ADDRESS: RODDING CLETANING SERV. SAN LEANBRO					HAGEMAN - AGUIAR, INC. 3732 Mt. Diablo Blvd., Suite 372 Lafayette, CA 94549 (415)284-1661 (415)284-1664 (FAX)			ANALYSIS REQUESTED									
CROSS REFERENCE NUMBER	DATE	TIME	S O I L	W A T E R	STA	TION LOCATIO	ON		/	RH	10		/	/	//,	/ REMARI	<b>(S</b>
MWI	6-8-92	1215		X	SAN	LEAND	Vlo		X	X	Ĺ						
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