

**SECOR**

HAZARDOUS  
International Incorporated

94 NOV 23 P11 2:09

November 21, 1994

Mr. J. Dale Hudson  
Superintendent of Schools  
Albany Unified School District  
904 Talbot Avenue  
Albany, California 94706

Re: **Former Hill Lumber Facility**  
**1259 Brighton Avenue**  
**Albany, California**

Dear Mr. Hudson:

Enclosed please find *SECOR* International Incorporated's (*SECOR*) Site Investigation Report for the above referenced property.

If you have any questions regarding this report or the project in general, please do not hesitate to call me at (510) 686-9780. Thank you again for the opportunity to provide our services.

Sincerely,

**SECOR International Incorporated**



Jean M. Christensen, REA  
Principal Scientist

JMC:kms  
Enclosures

cc: Gregory Mix  
Susan Hugo

LANDPLAN.L05  
November 21, 1994  
Job No. 70059-001-01

NEW  
HAZMAT  
OCT 23 PM 2:09

**SECOR**  
*International Incorporated*

**SITE INVESTIGATION REPORT  
FORMER HILL LUMBER COMPANY  
1259 BRIGHTON AVENUE  
ALBANY, CALIFORNIA**


**SECOR Job No. 70059-001-01**

**Prepared For:**  
Albany Unified School District  
904 Talbot Avenue  
Albany, California 94706

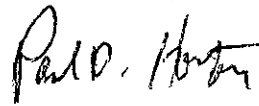
**Prepared By:**  
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1390 Willow Pass Road  
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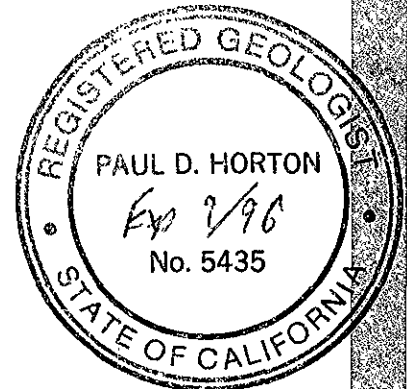
November 21, 1994

**Prepared By:**

  
Robert Robitaille  
Project Geologist

**Reviewed By:**

  
Paul D. Horton, R.G.  
Principal Hydrogeologist



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## 1.0 INTRODUCTION

This report describes the results of an investigation of subsurface soil and groundwater at the former Hill Lumber Company (the Site) located at 1259 Brighton Avenue in Albany, California (Figure 1). The objectives of this investigation were to:

- further delineate the lateral extent of petroleum hydrocarbons in the soil and groundwater beneath the Site associated with the former existence of a 500 gallon underground storage tank (UST);
- assess the presence of petroleum hydrocarbons in groundwater at the Site resulting from migration from the City of Albany corporation yard located within the site boundary; and
- collect additional hydrogeologic data which will help direct further subsurface investigation, or remediation at the site, if necessary.

The investigation involved the installation of one additional shallow groundwater monitoring well, three exploratory soil borings, the collection and chemical analysis of soil and groundwater water samples, and the preparation of this report.

## 2.0 BACKGROUND

The Hill Lumber Company has utilized the subject property as a lumber distribution facility and retail lumber yard since approximately 1922. From approximately the 1930's until the 1950's, Hill Lumber Company maintained a 500-gallon gasoline underground storage tank (UST). The 500-gallon UST was located in the loading dock area on the east side of Building 1 (Figure 2). From the 1950's until approximately 1991, Hill Lumber Company also maintained one 1,000-gallon gasoline UST used for refueling fleet vehicles. The 1,000-gallon UST was located beneath the sidewalk adjacent to Brighton Avenue.

### 3.0 PREVIOUS SITE ASSESSMENT ACTIVITIES

Both of the on-site tanks were removed in April, 1991. The concentrations of total petroleum hydrocarbons as gasoline (TPHg) below the 1,000-gallon UST ranged from 2 to 3,700 mg/kg. TPHg concentrations below the 500-gallon UST ranged from 210 to 890 mg/kg. There was no record of groundwater in the excavations.

In July, 1991, four soil borings were drilled within about 10 feet of the tank excavations. Soil samples registered less than detection limits; however, a groundwater sample collected from the open borehole near the 1,000 gallon UST contained 2,925 parts per billion (ppb) TPHg and 59 ppb benzene.

Between July and August, 1992, approximately 257 cubic yards of contaminated soils were removed from the area of the former tank locations. The excavation for the 1,000-gallon UST did not extend beyond the southern boundary of Building 1, or west of the site boundary. Soils containing TPHg at concentrations of 700 parts per million (ppm) and 740 ppm, respectively, were left in place south of Building 1 and in the western portion of the property. The excavation for the 500 gallon UST did not extend beneath the office/warehouse building. The analytical data collected from the 500-gallon UST excavation, indicated that contaminated soil was left in place beneath the building at a concentration of 460 ppm TPHg.

Two groundwater monitor wells and one piezometer were installed at the southwest property boundary (approximately 15 feet from the Office Building) in July 1994. The results of the analytical data indicated no detectable levels of TPHg or benzene, toluene, ethylbenzene and xylenes (BTEX) in the groundwater samples collected from the three wells; however, trace levels of total petroleum hydrocarbons as diesel (TPHd) were detected in monitor well MW-1 at 110 ppb.

The City of Albany Corporation Yard, 507 San Gabriel Avenue had one 250-gallon gasoline UST removed from its property which is located adjacent to the investigation area boundary. According to information reviewed in the City of Albany files, a soil sample collected beneath the UST at the time of the removal (August 1991) indicated 0.009 parts per million (ppm) benzene and 0.007 ppm ethylbenzene. A composite soil sample collected from the excavated soil indicated TPH at 560 ppm and total BTEX ranging from ND<3 to 30 ppm. In August 1992, HTA drilled three soil borings and one cone penetration hole. Six soil samples and one groundwater sample were collected. The water sample contained 91 ppb TPHg, 0.7 ppb benzene, 0.3 ppb toluene, 9.0 ppb ethylbenzene, and 0.4 ppb total xylenes.

## 4.0 SCOPE OF WORK

The subsurface investigation consisted of the following specific tasks:

- Prepared a site-specific Health and Safety Plan.
- Prepared and submitted a workplan to Alameda County for proposed investigation.
- Prepared a drilling permit application for the Zone 7 water agency.
- Conducted an on-site utility clearance in the vicinity of the boring locations.
- Drilled four soil borings, collected groundwater grab samples, and installed one groundwater monitor well.
- Surveyed the elevation of the new monitor well.
- Measured groundwater elevations of all on-site wells, and collected a groundwater sample from the new monitor well.
- Prepared this Site Investigation Report.

### 4.1 Site Health and Safety Plan

Prior to conducting any field work, a site-specific Health and Safety Plan was prepared which detailed field procedures regarding various potential safety hazards. The Health and Safety Plan was written to comply with the requirements of Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.120.

### 4.2 Workplan

*SECOR* prepared a workplan detailing the proposed investigation activities. The workplan was submitted to the Alameda County Health Care Services Agency (ACHCSA) on October 19, 1994. Ms. Susan Hugo of the ACHCSA granted approval of the workplan on October 24, 1994.



### **4.3 Drilling Permit**

SECOR prepared and submitted a drilling permit application to the Zone 7 water agency on October 19, 1994. The application was approved by Mr. Wyman Hong on the same day.

### **4.4 Utility Clearance**

Prior to initiation of soil boring activities, underground utilities were cleared in the vicinity of the proposed boring locations using a professional utility locating service in conjunction with notification of Underground Service Alert (USA).

### **4.5 Soil Boring and Monitor Well Installation**

On October 24, 1994, three soil borings (HP-1, HP-2, and HP-3) were drilled on the west side of San Gabriel Avenue in the vicinity of the City of Albany corporation yard (Figure 2). The borings were placed in the presumed down gradient direction from the former location of a gasoline UST on the City property. The borings were drilled to depths ranging from 8- to 15-feet.

On October 25, 1994, one soil boring (MW-4) was drilled within 10-feet of the former 500-gallon gasoline UST (Figure 2). The boring was placed in order to comply with the regulations in the "Tri-Regional Board Staff Recommendations For Preliminary Evaluation And Investigation Of Underground Storage Tank Sites." The boring was drilled to a depth of 18.5-feet below surface grade, approximately 8-feet below the first encountered groundwater and subsequently converted to a groundwater monitor well.

All soil borings were drilled using a truck mounted drill rig equipped with 8.5-inch outside diameter augers. Continuous cores were collected from each boring using either a 3.5-inch diameter by 5-foot long core barrel, or a 2.5-inch diameter by 18-inch long split spoon sampler. The soil cores were logged and described in the field to produce an accurate lithologic and stratigraphic profile.

The soil cores were field screened for total organic vapors using a photo-ionization detector (PID) equipped with an 10.2 eV lamp. PID readings were recorded on the logs at the appropriate depth. Soil samples were collected from the cores in brass tubes and sealed with Teflon squares, and plastic end caps. The soil samples were labeled with the appropriate borehole information, time and date of collection, and placed on ice for subsequent transport and analysis at a State of California certified analytical laboratory. Chain-of-Custody procedures were followed at all times. Selected soil samples were analyzed for TPHg and BTEX compounds using U.S. Environmental Protection Agency (EPA) Methods 5030/8015/8020, and for TPHd by modified EPA Methods 3510/8015.

Groundwater grab samples were collected from the HP- series of borings. Groundwater grab samples were collected in two of the borings using a Hydropunch™ sampling device, and from the open borehole in one of the borings where the hydropunch sampler could not be used due to gravel. Groundwater samples were subsequently decanted into laboratory supplied sample bottles, tightly capped with zero headspace, then labeled with the sample number, sample time and date, and immediately placed on ice in an insulated cooler. The samples were logged onto a Chain-of-Custody manifest for subsequent delivery to a state certified laboratory. Groundwater grab samples were laboratory analyzed for TPHg, and BTEX compounds using EPA Methods 5030/8015/8020, and TPHd by modified EPA Methods 3510/8015.

Monitor well MW-4 was constructed with 8-feet of 2-inch diameter, 0.020-inch machine slotted, Schedule 40 PVC well screen, installed from the bottom of the borehole to approximately 1.5-feet above the first encountered groundwater. Two-inch diameter blank PVC casing completed the well from the top of the screened interval to within 1-foot of grade. A filter pack consisting of #2/12 Monterey sand was placed in the annular space from the bottom of the boring to approximately 1 foot above the screened interval. A sanitary seal consisting of two feet of hydrated bentonite slurry was placed on top of the filter pack, and bentonite cement slurry filled the remaining annulus to surface grade. The monitor well was completed at surface grade with a traffic rated street box set in concrete, and a water tight locking well cap.

The new monitor well was developed at the time of construction prior to placing the sanitary seal. The well was developed using a hand held PVC bailer to alternately surge the screened portion of the well screen and to purge the sediment laden water. Development continued until thirty gallons of groundwater had been removed, and the water produced was relatively sediment free. Upon completion of surging and purging, additional sand was added to the filter pack to restore its' level to one foot above the well screen.

During drilling and hydropunch operations, all augers, sampling tools, and down hole equipment were decontaminated by steam cleaning prior to each use. Rinse water was contained during drilling operations and was stored in 55-gallon drums. All soil cuttings generated during the drilling operations were contained in 55-gallon drums on site pending proper disposal. Prior to using any equipment in the monitor wells, the equipment was decontaminated by double washed with a laboratory grade detergent in clean water, and triple rinsed using deionized water. All purge water generated during well development and groundwater sampling procedures was contained on site in 55-gallon drums pending arrangement of proper disposal.

#### 4.6 Site Surveying and Groundwater Monitoring and Sampling

On October 26, 1994, the elevation of the new monitor well was surveyed to within 0.01 feet relative to mean sea level using the existing wells at the Site as a reference. Depth to groundwater was measured at all on-site monitor wells using a water level indicator graduated to 0.01 foot. The depth to groundwater measurements were then converted to groundwater elevations for each well and plotted on a map at the corresponding location and contoured to produce a site-specific groundwater contour map (Figure 3).

A groundwater sample was collected from the new monitor well on the same day that water levels were collected. Prior to collecting the groundwater sample, the well was purged of at least three well casing volumes using a clean stainless steel bailer until measurements of pH, temperature and conductivity had stabilized. After allowing the water level in the monitor well to recover to at least 80-percent of its static level, a groundwater sample was collected and subsequently decanted in laboratory supplied sample bottles. Samples were tightly capped with zero headspace, then labeled with the sample number, sample time and date, and immediately placed on ice in an insulated cooler. The samples were logged onto a Chain-of-Custody manifest for subsequent delivery to a state certified laboratory. Groundwater samples were laboratory analyzed for TPHg, and BTEX compounds using EPA Methods 5030/8015/8020, and TPHd by modified EPA Methods 3510/8015.

## 5.0 RESULTS

### 5.1 Geology/Hydrogeology

The on-site geology as discovered in the borings consists of black silty clay from the surface to approximately five feet below grade. The silty clay is underlain by several feet of brown to yellowish brown sandy or gravelly clay which grades with increasing coarse fraction with depth. This clay becomes interbedded with gravel and sand lenses at depths ranging from 7- to 13-feet below surface grade. Groundwater was discovered in three of the soil borings (MW-4, HP-1 and HP-2) at depths ranging from 12- to 13-feet in the coarser materials present beneath the brown/yellowish brown clay. The groundwater levels subsequently rose to approximately 8-feet indicating that groundwater at the site is under confined conditions. Groundwater in the fourth boring (HP-3) was discovered at 7.5-feet in a gravelly clayey sand indicating that groundwater at this location is not confined. Boring logs are included in this report as Appendix A.

### 5.2 Soil Analytical Data

PID readings taken from the soil cores did not indicate the presence of petroleum hydrocarbons in any of the borings. One soil sample was collected from just above the saturated soil in each boring, and an additional soil sample was retained from boring MW-4 at a depth of 8-feet bgs from a thin zone which exhibited a color typical of petroleum impacted soil. Table 1 presents a summary of the soil analytical results. All soil samples were submitted to Superior Precision Analytical laboratory for chemical analysis of TPHg, and BTEX compounds using EPA Methods 5030/8015/8020, and TPHd by modified EPA Methods 3510/8015. No target analytes were detected in the samples submitted. Copies of the analytical laboratory reports and Chain-of-Custody Manifests are included in this report as Appendix C.

### 5.3 Groundwater Analytical Data

Groundwater samples collected from borings HP-1, HP-2, and HP-3, and from monitor well MW-4 were submitted to Superior Precision Analytical laboratory for chemical analysis of TPHg, and BTEX compounds using EPA Methods 5030/8015/8020, and TPHd by modified EPA Methods 3510/8015. No target analytes were detected in the samples submitted. Table 2 presents a summary of groundwater analytical results. Copies of the analytical laboratory reports and Chain-of-Custody Manifests are included in this report as Appendix C.

## 5.4 Groundwater Monitoring Data

Depth-to-water measurements made on October 26, 1994 were combined with surveyed top of casing elevation data to calculate the groundwater elevation for each well. The data showed that static groundwater surface exists beneath the Site at an average elevation of 52.54 feet above mean sea level. Groundwater elevations were posted on a base map and contoured to produce the groundwater contour map presented in Figure 3. The map shows that groundwater flows toward the west-south-west under a hydraulic gradient of approximately 0.025 feet per foot. The groundwater flow direction is consistent with previously reported data. Field data sheets are included in this report as Appendix B

## 6.0 SUMMARY/CONCLUSIONS

On October 24, and 25, 1994, four soil borings were drilled at the former Hill Lumber Company in order to collect soil and groundwater samples for laboratory analysis.

Three borings (HP-1, HP-2, HP-3) were drilled across San Gabriel Avenue from the City of Albany Corporation yard. The intent of these borings was to determine if hydrocarbon impacted groundwater associated with a gasoline UST formerly located on the western edge of City of Albany Corporation yard had migrated onto the Hill Lumber Company property. The borings were placed in the presumed down gradient direction of the former UST location. Soil and groundwater samples collected from these borings were laboratory analyzed for the presence of TPHd, TPHg, and BTEX compounds. Laboratory analytical results indicate that no target analytes have migrated onto the Hill Lumber property in the vicinity of the former UST.

One boring (MW-4) was drilled in the vicinity of a 500-gallon gasoline UST formerly located beside the Hill Lumber Company office building. The boring was placed within ten feet of the former UST and converted to a groundwater monitor well. The location of the monitor well also allowed for the verification of the site specific groundwater flow direction. Soil and groundwater samples collected from MW-4 were laboratory analyzed for the presence of TPHd, TPHg, and BTEX compounds. Laboratory analytical results indicate that no target analytes are present in soil or groundwater at MW-4. Groundwater was found to flow toward the west-south-west, consistent with previous data for other wells on the property.

## 7.0 REFERENCES

Certified Environmental Consulting; September 15, 1992, Report of Soil Remediation at Hill Lumber Company, 1259 Brighton Avenue, Albany, California.

Certified Environmental Consulting; July 14, 1994, Groundwater Monitoring Well Installation Report, Hill Lumber Company, 1259 Brighton Avenue, Albany, California.

Harlan Tate Associates; Preliminary Investigation and Evaluation Report, Corporation Yard, 507 San Gabriel, Albany, California.

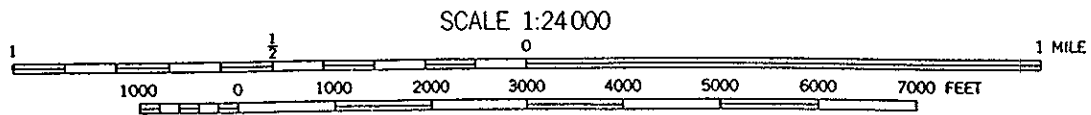
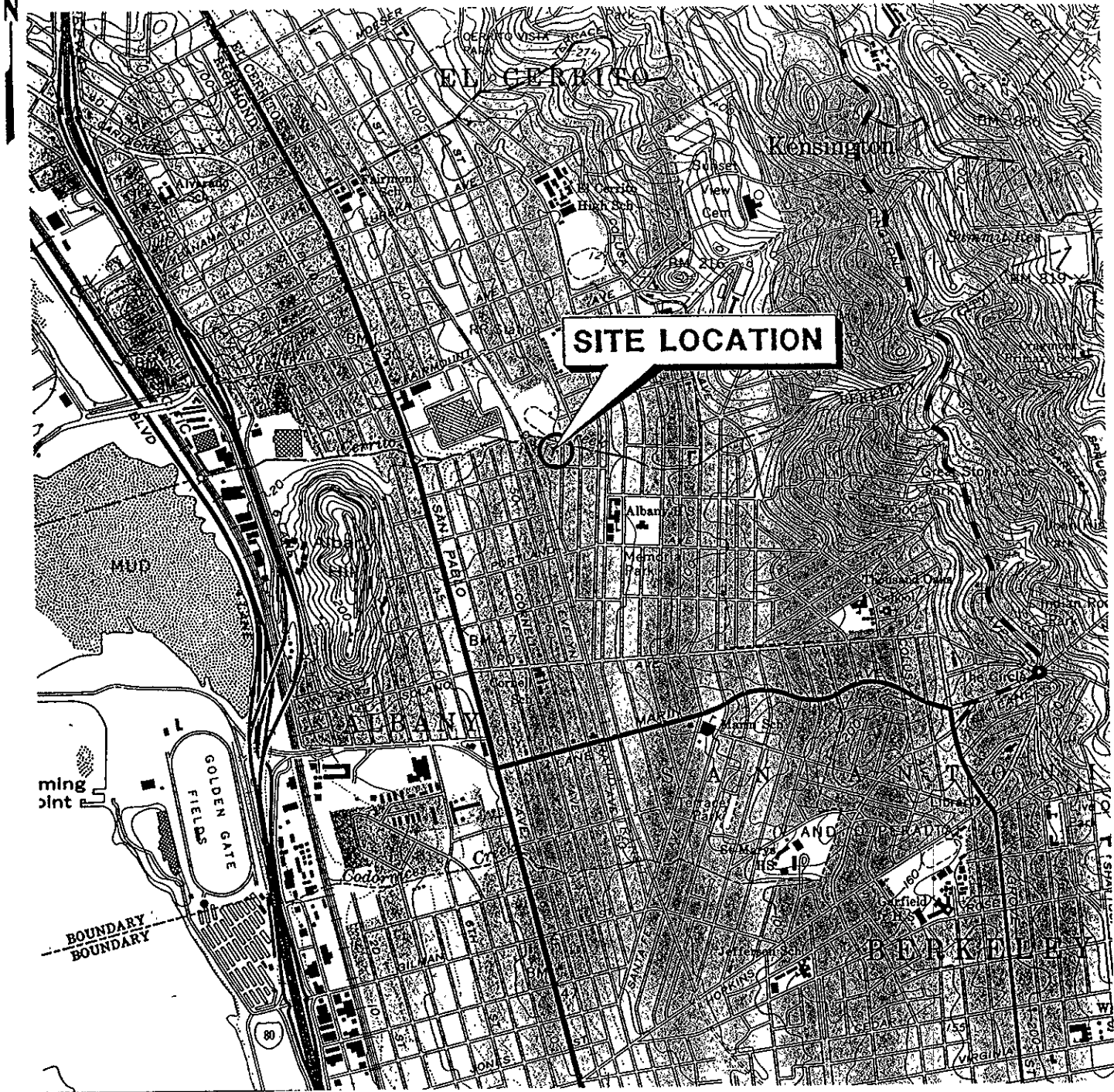
*SECOR* International Inc.; Phase I Environmental Site Assessment Update Report, Hill Lumber Company, 1259 Brighton Avenue, Albany, California.

California Regional Water Quality Control Board - San Francisco Bay Region; August 10, 1990, Tri-Regional Board Staff Recommendations For Preliminary Evaluation and Investigation of Underground Storage Tank Sites.

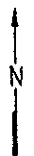
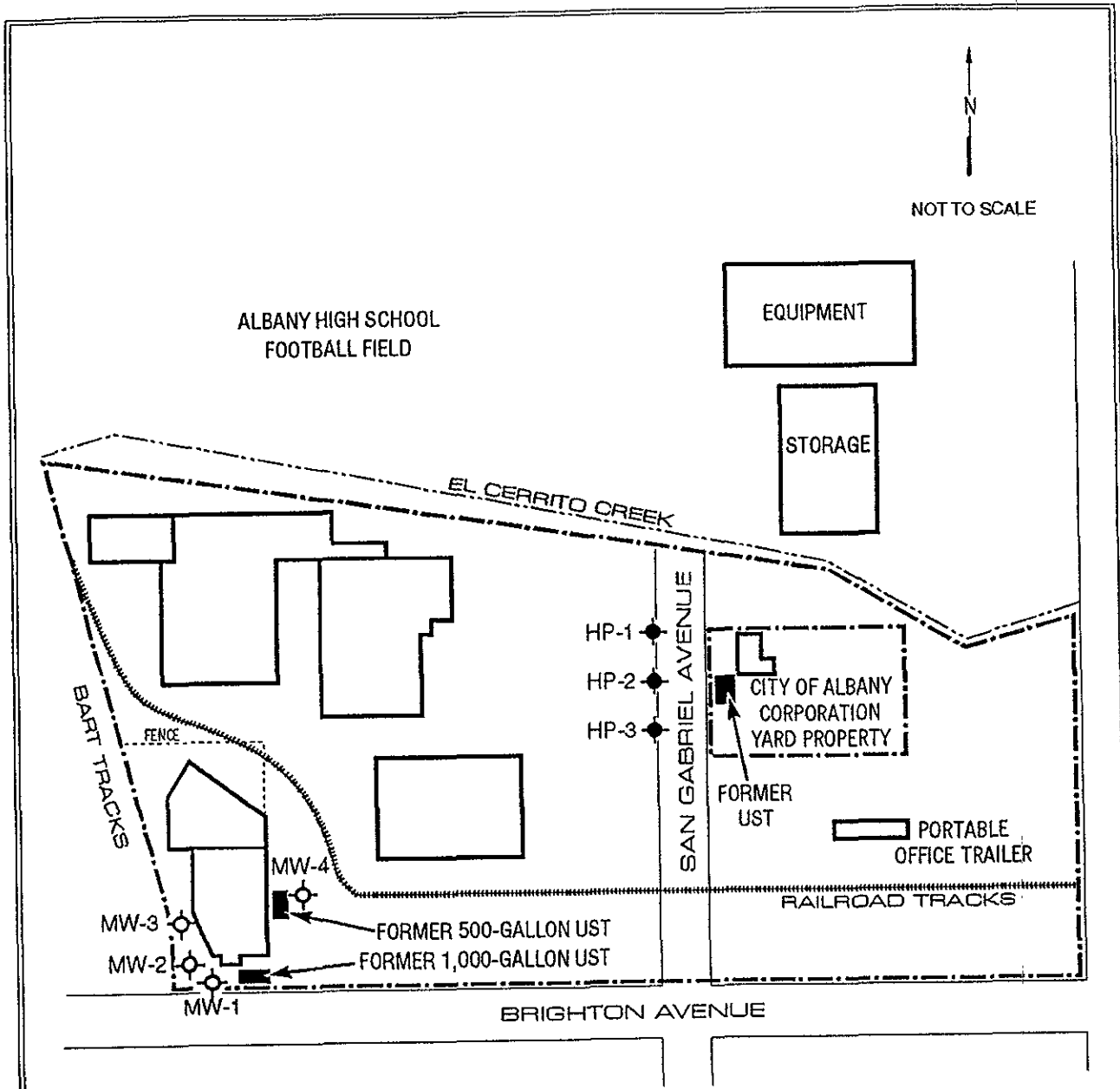
*FIGURES*



**RICHMOND QUADRANGLE**  
California



DRAFTED BY: <b>TS</b>	CHECKED BY: <b>JMC</b>	<b>PROJECT NO. 70059-001-01</b>	<b>FIGURE 1</b>	<b>SEACOR</b> 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: <b>08/31/94</b>	REV. DATE: <b>08/31/94</b>			
FILE NAME: <b>landplan.f01</b>				

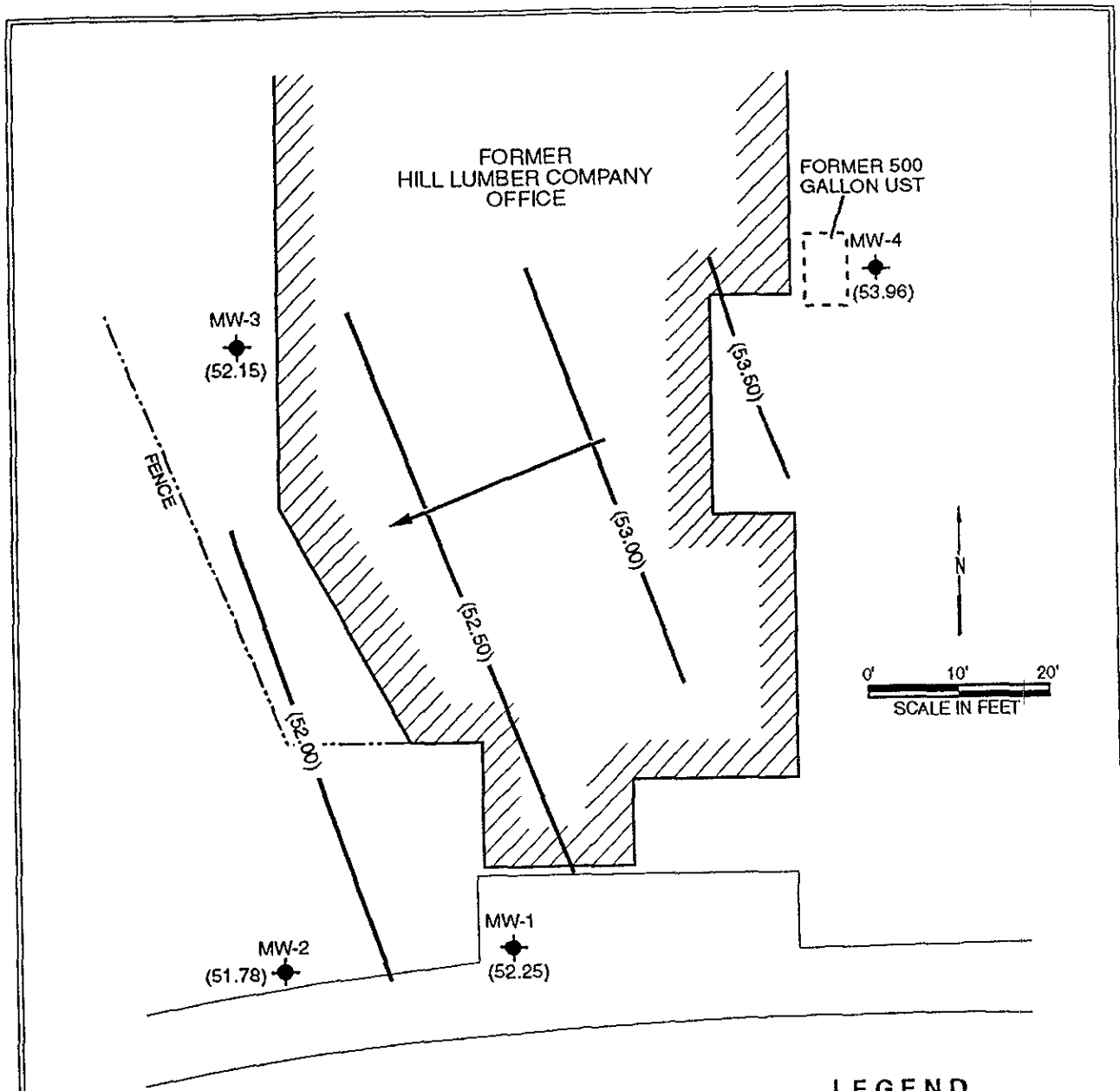


NOT TO SCALE

**LEGEND**

- BUILDING OUTLINE
- - - ESTIMATED SITE BOUNDARY
- ⊕ MONITORING WELL (MW)
- ◆ SOIL BORING

DRAFTED BY: PEM	CHECKED BY: B.R.	PROJECT NUMBER: 70059-001-01	FIGURE NUMBER: 2	<b>SEACOR</b> 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG DATE: 11/2/94	REV. DATE:	CLIENT: HILL LUMBER COMPANY	TITLE: SOIL BORING LOCATION MAP HILL LUMBER COMPANY 1259 BRIGHTON AVENUE ALBANY, CA	
FILE NAME: ScrHillLmbrSoilBrng#2				



**LEGEND**

- ◆ MONITOR WELL (MW)
- (52.25) GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW DIRECTION

ADAPTED FROM CEC MAP

DRAFTED BY: PEM	CHECKED BY: B.R.	PROJECT NUMBER: 70059-001-01	FIGURE NUMBER: 3	<b>SEACOR</b> 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG DATE: 11/2/94	REV. DATE:	CLIENT: HILL LUMBER COMPANY	TITLE: GROUNDWATER CONTOUR MAP HILL LUMBER COMPANY 1259 BRIGHTON AVENUE ALBANY, CA	
FILE NAME: ScrHilLmbrContur#3				

*TABLES*

**TABLE 1**  
**LABORATORY ANALYTICAL RESULTS**  
**SOIL**  
**October 1994**

<i>Sample Number</i>	<i>Depth (feet)</i>	<i>THPd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl-benzene</i>	<i>Total Xylenes</i>
HP1-11.5	11.5	<10	<1	<0.005	<0.005	<0.005	<0.005
HP2-13.5	13.5	<10	<1	<0.005	<0.005	<0.005	<0.005
HP3-7.5	7.5	<10	<1	<0.005	<0.005	<0.005	<0.005
MW4-8	8	<10	<1	<0.005	<0.005	<0.005	<0.005
MW4-11.5	11.5	<10	<1	<0.005	<0.005	<0.005	<0.005

Notes:  
 Concentrations in milligrams per kilogram  
 < indicates analyte not detected above the method detection limit shown

**TABLE 2**  
**LABORATORY ANALYTICAL RESULTS**  
**GROUNDWATER**  
**October 1994**

<i>Sample Number</i>	<i>THPd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl-benzene</i>	<i>Total Xylenes</i>
HP-1	<50	<50	<0.5	<0.5	<0.5	<0.5
HP-2	<50	<50	<0.5	<0.5	<0.5	<0.5
HP-3	<50	<50	<0.5	<0.5	<0.5	<0.5
MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5

**Notes:**

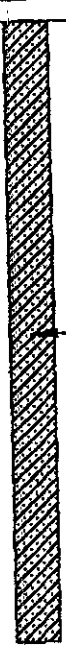
Concentrations in micrograms per liter

< indicates analyte not detected above the method detection limit shown

*APPENDIX A*

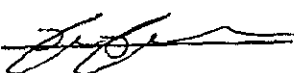
*Boring Logs*

Project: <b>FORMER HILL LUMBER CO.-1259 Brighton Ave. Albany, CA</b>		Log of Boring/Monitoring Well:
Boring Location: <b>West Side of San Gabriel- NW of UST</b>	Project No.: <b>70059-001-01</b>	<b>HP-1</b>
Subcontractor and Equipment: <b>BAYLAND CME 75, 7" HSA</b>	Logged By: <b>ROBITAILLE</b>	
Sampling Method: <b>CONTINUOUS SPLIT SPOON</b>	Monitoring Device: <b>PID/OVM</b>	Comments:
Start Date/Time: <b>10/24/94//1030</b>	Finish Date/Time: <b>10/24/94//1230</b>	
First Water (bgs): <b>NA</b>	Stabilized Water Level (bgs): <b>NA</b>	

Sample Interval Recovery (Inches)	Blows/Foot	PID (ppm)	Depth (Feet)	Samples	USCS Symbol	Water Level	Surface Elevation: <b>NA</b>	Casing Top Elevation: <b>NA</b>	Boring Abandonment/ Well Construction Details
							LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
<b>HAND AUGERED</b>			0				BROKEN ASPHALT-GRAVEL ROAD BASE		 Backfilled with Neat Cement
			1				BASEROCK, SILT, CLAY		
		0	2				BLACK (10YR 2.5/1.5) SILTY CLAY (CL) moderate soft, dry, trace poorly sorted sand (0,5,25,70)		
			3				THIN GRAVELLY CLAY WITH SAND (CL)		
18"/18"	25	0	4				BROWN (10YR 5/3) FINE SANDY CLAY (CL) moderate hard, dry, very fine well sorted sand, with silt, trace small gravel, very dark brown and yellowish brown mottled (3,32,10,55)		
18"/12"	17	0	5						
18"/14"	20	0	6						
18"/18"	25	0	7						
18"/18"	25	0	8				Grades with abundant medium gravels, angular to well rounded, >2" dia. max., with fine to coarse sand (15,20,70,55)		
18"/15"	18	0	9						
		0	10						
		0	11				Grades moist on gravel surfaces		
18"/4"	32	0	12				End of Boring at 13'. Drove Hydropunch Sampler to 17'.		
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
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			29						
			30						


199411.030901 E:\LOOS\HILL-LUMA\HP-1

**SECOR**

Reviewed By:  Date: Nov 4, 94  
 Revised By: \_\_\_\_\_ Date: \_\_\_\_\_




Project: FORMER HILL LUMBER CO.-1259 Brighton Ave. Albany, CA		Log of Boring/Monitoring Well:
Boring Location: 35' West of UST on San Gabriel	Project No.: 70059-001-01	<b>HP-2</b>
Subcontractor and Equipment: BAYLAND CME 75, 7" HSA	Logged By: ROBITAILLE	
Sampling Method: CONTINUOUS SPLIT SPOON	Monitoring Device: PID/OVM	Comments:
Start Date/Time: 10/24/94//1245	Finish Date/Time: 10/24/94//1400	
First Water (bgs): 13.5 FEET	Stabilized Water Level (bgs): NA	

Sample Interval Recovery (inches)	Blows/Foot	PID (ppm)	Depth (feet)	Samples	USCS Symbol	Water Level	Surface Elevation: NA	Casing Top Elevation: NA	Boring Abandonment/ Well Construction Details
							LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
HAND AUGERED			0				GRAVEL BASE FILL (GRAVEL, SAND, SILT, CLAY, DRY, NO ODOR)		 <p>Backfilled with Neat Cement</p>
	0		1				BLACK (10YR 2.5/1.5) CLAY WITH SILT (CL) moderate soft, trace poorly sorted sand (0,5,20,75)		
			2						
			3						
18"/14"	17		4				GRAVELLY CLAY, BLACK (CL) moderate hard, dry (20,5,15,60)		
18"/18"	22		5				BROWN (10YR 5/3) FINE SANDY CLAY WITH SILT (CL) moderate hard, dry, very dark brown and yellowish brown mottled, trace small gravel (3,32,10,55)		
18"/14"	12		6						
			7						
18"/16"	19		8				Grades with abundant gravel		
18"/12"	25		9				YELLOWISH BROWN (10YR 5/4) GRAVELLY SANDY CLAY (CL) moderate hard, dry, black and yellowish brown mottled, interbedded (20,30,10,40)		
18"/14"	31		10						
18"/14"	33		11						
			12						
			13				Discovered water at 1345 hrs. in gravelly sand lens.		
			14				End of Boring at 14'. Drove Hydropunch Sampler to 17'.		
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						

199411.030901 2: \USCS\HILL-LUM\HP-2

Project: FORMER HILL LUMBER CO.-1259 Brighton Ave. Albany, CA		Log of Boring/Monitoring Well:
Boring Location: W of San Gabriel, SW of Former UST	Project No.: 70059-001-01	<b>HP-3</b>
Subcontractor and Equipment: BAYLAND CME 75, 7" HSA	Logged By: ROBITAILLE	
Sampling Method: CONTINUOUS SPLIT SPOON	Monitoring Device: PID/OVM	Comments:
Start Date/Time: 10/24/94//1525	Finish Date/Time: 10/24/94//1550	
First Water (bgs): 7.6 FEET	Stabilized Water Level (bgs): NA	

Sample Interval Recovery (Inches)	Blows/Foot	PID (ppm)	Depth (Feet)	Samples	USCS Symbol	Water Level	Surface Elevation: NA	Casing Top Elevation: NA	Boring Abandonment/ Well Construction Details
							LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
HAND AUGERED			0				GRAVEL BASE		 Backfilled with Neat Cement
			1				FILL (GRAVEL, SAND, SILT, CLAY, DRY)		
	0		2				BLACK (10YR 2.5/1.5) SILTY CLAY (CL) moderate soft, dry, trace poorly sorted sand (0,5,25,70)		
18"/10"	8	0	3						
18"/14"	22		4						
			5				YELLOWISH BROWN (10YR 5/4) GRAVELLY SANDY CLAY (CL) moderate hard, dry, poorly sorted fine to coarse sand and gravel (15,30,15,40)		
18"/14"	17		6						
			7				Found water 1550 hrs.		
			8				YELLOWISH BROWN, GRAVELLY CLAYEY SAND (SC) medium loose, wet (20,40,10,30)		
			9						
			10				End of Boring at 8'. Drove Hydropunch Sampler to 12'.		
			11						
			12						
			13						
			14						
			15						
			16						
			17						
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			29						
			30						

199411.030901 E:\LOGS\HILL-LUMA\HP-3

Project: FORMER HILL LUMBER CO.-1259 Brighton Ave. Albany, CA	Log of Boring/Monitoring Well:
Boring Location: W Side of Bldg. Beside Former 500 Gal. UST	Project No.: 70059-001-01
Subcontractor and Equipment: BAYLAND CME 75, 8" HSA	Logged By: ROBITAILLE
Sampling Method: CONTINUOUS CORE BARREL	Monitoring Device: PID/OVM
Start Date/Time: 10/25/94//1100	Finish Date/Time: 10/25/94//1135
First Water (bgs): 12.0 FEET	Stabilized Water Level (bgs): 8.1 FEET

**MW-4**

Comments:

Sample Interval Recovery (Feet)	Blows/Foot	PID (ppm)	Depth (Feet)	Samples	USCS Symbol	Water Level	Surface Elevation: NA	Cosing Top Elevation: 62.01 FT.	Boring Abandonment/ Well Construction Details
							LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
HAND AUGERED			0				ASPHALT/CONCRETE		2" # Blank Casing Sch. 40 PVC
			1				BLACK (10YR 2/1) SILTY CLAY (CL) moderate soft, moist, trace fine sand (0,5,30,65)		
5'/5'	0		2				Grades with light gray mottling, dry		Hydrated Bentonite Pellets
	0		3				GRAYISH BROWN (2.5Y 5/2) SANDY CLAY (CL) moderate hard, dry, poorly sorted fine to coarse sand, trace small gravel, no product odor (3,17,10,70)		
5'/5'	0		4				GRAYISH BROWN, GRAVELLY CLAY (CL) moderate hard, dry, with poorly sorted sand, trace silt, poorly sorted gravel to >2" dia. (15,10,5,60)		#2/12 Lonestar Sand Pack
	0		5				Grades yellowish brown (10YR 5/5) increasing gravel and sand (20,20,10,50)		
5'/3'	0		6				Grades moist		2" # Sch. 40 0.020" Slot Screen
	0		7				Found water 1135 hrs.		
			8				YELLOWISH BROWN (10YR 5/4) INTERBEDDED GRAVELLY SAND WITH CLAY, GRAVELLY CLAY AND CLAYEY SAND (SW/CL) hard to loose, wet (20,40,10,30)		Slip Cap held with Screws
			9				YELLOWISH BROWN (10YR 5/4) GRAVELLY SAND (SW) moderate loose, wet, very poorly sorted fine to very coarse sand, very poorly sorted, small to large gravel with cobbles (30,60,5,5)		
			10				YELLOWISH BROWN, CLAYEY GRAVEL (GC) dense, wet to moist, very poorly sorted, small to large gravel with cobbles (60,10,0,30)		
			11				End of Boring 18.5'		

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*APPENDIX B*

*Field Data Sheets*

# SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 70059-001-01  
 PURGED BY: BR  
 SAMPLED BY: BR

WELL ID: MW-4  
 SAMPLE ID: MW-4  
 CLIENT NAME: Albany Un. School Dist.  
 LOCATION: 1259 Brighton Ave, Albany

TYPE: Groundwater  Surface Water \_\_\_\_\_ Treatment Effluent \_\_\_\_\_ Other \_\_\_\_\_

CASING DIAMETER (inches): 2  3 \_\_\_\_\_ 4 \_\_\_\_\_ 4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION: (feet/MSL): _____	VOLUME IN CASING (gal): <u>1.7</u>
DEPTH TO WATER (feet): <u>8.05</u>	CALCULATED PURGE (gal): <u>5.1</u>
DEPTH OF WELL (feet): <u>17.88 (9.83)</u>	ACTUAL PURGE VOL (gal): <u>5.5</u>

DATE PURGED: 10-26-94 Start (2400 Hr) 10:10 End (2400 Hr.) 10:35  
 DATE SAMPLED: 10-26-94 Start (2400 Hr) 10:55 End (2400 Hr.) \_\_\_\_\_

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1): None

### FIELD MEASUREMENTS

TIME (2400 Hr)	VOLUME (gal)	pH (units)	E.C. (microhm/cm@25°C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (NTU)
<u>10:16</u>	<u>1.5</u>	<u>10.4</u>	<u>806</u>	<u>65.7</u>	<u>brn</u>	<u>mod</u>
<u>10:21</u>	<u>2.5</u>	<u>10.2</u>	<u>758</u>	<u>67.7</u>	<u>"</u>	<u>"</u>
<u>10:24</u>	<u>4</u>	<u>10.3</u>	<u>740</u>	<u>68.3</u>	<u>"</u>	<u>"</u>
<u>10:30</u>	<u>5</u>	<u>10.2</u>	<u>735</u>	<u>68.4</u>	<u>"</u>	<u>"</u>
<u>10:34</u>	<u>5.5</u>	<u>10.2</u>	<u>732</u>	<u>68.2</u>	<u>"</u>	<u>"</u>

D.O. (ppm): NM COLOR, COBALT (0-100): NM

- Clear
- Cloudy
- Yellow
- Brown

ODOR: None

#### PURGING EQUIPMENT

- \_\_\_\_\_ 2" Bladder Pump \_\_\_\_\_ Bailer (Teflon®)
- \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_ Bailer (PVC)
- \_\_\_\_\_ Submersible Pump  Bailer (Stainless Steel)
- \_\_\_\_\_ Well Wizard™ \_\_\_\_\_ Dedicated

Other: \_\_\_\_\_

#### SAMPLING EQUIPMENT

- \_\_\_\_\_ 2" Bladder Pump \_\_\_\_\_ Bailer (Teflon®)
- \_\_\_\_\_ DDL Sampler \_\_\_\_\_ Bailer (PVC/disposable)
- \_\_\_\_\_ Submersible Pump  Bailer (Stainless Steel)
- \_\_\_\_\_ Well Wizard™ \_\_\_\_\_ Dedicated

Other: \_\_\_\_\_

WELL INTEGRITY: OK (new well) LOCK #: Dolphin #1600  
 REMARKS: First sample event at this well. MW-4 was installed yesterday and developed during installation prior to placing sanitary seal.

SIGNATURE: [Signature] Page 1 of 1



*APPENDIX C*

*Laboratory Analytical Reports and Chain-of-Custody Manifests*



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

RECEIVED

NOV - 3 1994

SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001-01  
Reported 01-November-1994

DIESEL RANGE ORGANICS by EPA Method 8100 Modified.  
Diesel range quantified as all compounds from C10 to C28.

## Chronology

Laboratory Number 92883

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
HP1-11.5	10/24/94	10/25/94	10/26/94	10/26/94		1
HP2-13.5	10/24/94	10/25/94	10/26/94	10/26/94		3
HP-2	10/24/94	10/25/94	10/26/94	10/26/94		4
HP3-7.5	10/24/94	10/25/94	10/26/94	10/26/94		5
HP-3	10/24/94	10/25/94	10/26/94	10/27/94		6
HP-1	10/24/94	10/25/94	10/26/94	10/27/94		7
MW4-8	10/24/94	10/25/94	10/26/94	10/26/94		8
MW4-11.5	10/25/94	10/25/94	10/26/94	10/26/94		9





# Superior Precision Analytical, Inc.

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SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001-01  
Reported 01-November-1994

## DIESEL RANGE ORGANICS by EPA Method 8100 Modified.

Laboratory Number	Sample Identification	Matrix
92883- 1	HP1-11.5	Soil
92883- 3	HP2-13.5	Soil
92883- 4	HP-2	Water
92883- 5	HP3-7.5	Soil
92883- 6	HP-3	Water
92883- 7	HP-1	Water
92883- 8	MW4-8	Soil
92883- 9	MW4-11.5	Soil

### RESULTS OF ANALYSIS

Laboratory Number:	92883- 1	92883- 3	92883- 4	92883- 5	92883- 6
--------------------	----------	----------	----------	----------	----------

Diesel Range:	ND<10	ND<10	ND<50	ND<10	ND<50
---------------	-------	-------	-------	-------	-------

Concentration:	mg/Kg	mg/Kg	ug/L	mg/Kg	ug/L
----------------	-------	-------	------	-------	------

Laboratory Number:	92883- 7	92883- 8	92883- 9
--------------------	----------	----------	----------

Diesel Range:	ND<50	ND<10	ND<10
---------------	-------	-------	-------

Concentration:	ug/L	mg/Kg	mg/Kg
----------------	------	-------	-------



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

DIESEL RANGE ORGANICS by EPA Method 8100 Modified.  
Quality Assurance and Control Data - Soil

Laboratory Number 92883

Compound	Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Diesel Range:	ND<10	10	96/101	50-150	5%

#### Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/Kg = Parts per million (ppm)

QC File No. 92883



# Superior Precision Analytical, Inc.

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DIESEL RANGE ORGANICS by EPA Method 8100 Modified.  
Quality Assurance and Control Data - Water

Laboratory Number 92883

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Diesel Range:	ND<50	50	117/108	50-146	8%

### Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

ug/L = Parts per billion (ppb)

QC File No. 92883

*Asha H. Sabu* 11/1/94  
 Senior Chemist  
 Account Manager



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001-01  
Reported 01-November-1994

## VOLATILE PETROLEUM HYDROCARBONS

Sample preparation by Purge and Trap (EPA SW-846 method 5030). Gasoline analysis by SW-846 method 8015 modified. Gasoline range quantified as all compounds between C6 and C10. Benzene, Toluene, Ethyl Benzene and Xylenes analyses by EPA SW-846 method 8020.

### Chronology

Laboratory Number 92883

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
HP1-11.5	10/24/94	10/25/94	11/01/94	11/01/94		1
HP2-13.5	10/24/94	10/25/94	10/31/94	10/31/94		3
HP-2	10/24/94	10/25/94	10/27/94	10/27/94		4
HP3-7.5	10/24/94	10/25/94	10/31/94	10/31/94		5
HP-3	10/24/94	10/25/94	10/27/94	10/27/94		6
HP-1	10/24/94	10/25/94	10/27/94	10/27/94		7
MW4-8	10/24/94	10/25/94	10/31/94	10/31/94		8
MW4-11.5	10/25/94	10/25/94	10/31/94	10/31/94		9

Certified Laboratories

825 Arnold Dr., Suite 114  
Martinez, California 94553  
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit 1  
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Seattle, Washington 98108  
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# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001-01  
Reported 01-November-1994

## VOLATILE PETROLEUM HYDROCARBONS

Laboratory Number	Sample Identification	Matrix
92883- 1	HP1-11.5	Soil
92883- 3	HP2-13.5	Soil
92883- 4	HP-2	Water
92883- 5	HP3-7.5	Soil
92883- 6	HP-3	Water
92883- 7	HP-1	Water
92883- 8	MW4-8	Soil
92883- 9	MW4-11.5	Soil

## RESULTS OF ANALYSIS

Laboratory Number:      92883- 1    92883- 3    92883- 4    92883- 5    92883- 6

Gasoline:	ND<1	ND<1	ND<50	ND<1	ND<50
Benzene:	ND<.005	ND<.005	ND<0.5	ND<.005	ND<0.5
Toluene:	ND<.005	ND<.005	ND<0.5	ND<.005	ND<0.5
Ethyl Benzene:	ND<.005	ND<.005	ND<0.5	ND<.005	ND<0.5
Total Xylenes:	ND<.005	ND<.005	ND<0.5	ND<.005	ND<0.5

Concentration:              mg/kg              mg/kg              ug/L              mg/kg              ug/L

-- Surrogate % Recoveries --

Trifluorotoluene (SS): 119              109              117              115              116

Laboratory Number:      92883- 7    92883- 8    92883- 9

Gasoline:	ND<50	ND<1	ND<1
Benzene:	ND<0.5	ND<.005	ND<.005
Toluene:	ND<0.5	ND<.005	ND<.005
Ethyl Benzene:	ND<0.5	ND<.005	ND<.005
Total Xylenes:	ND<0.5	ND<.005	ND<.005

Concentration:              ug/L              mg/kg              mg/kg

-- Surrogate % Recoveries --

Trifluorotoluene (SS): 114              115              116



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## VOLATILE PETROLEUM HYDROCARBONS Quality Assurance and Control Data - Soil

Laboratory Number 92883

Compound	Method Blank (mg/kg)	RL (mg/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline:	ND<1	1	117/114	50-123	3%
Benzene:	ND<.005	.005	74/74	59-153	0%
Toluene:	ND<.005	.005	99/99	59-153	0%
Ethyl Benzene:	ND<.005	.005	105/105	59-153	0%
Total Xylenes:	ND<.005	.005	108/108	59-153	0%

### Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

mg/kg = Parts per million (ppm)

QC File No. 92883

### Certified Laboratories

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Seattle, Washington 98108  
(206) 763-2992 / fax (206) 763-8429



# Superior Precision Analytical, Inc.

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VOLATILE PETROLEUM HYDROCARBONS  
Quality Assurance and Control Data - Water

Laboratory Number 92883

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline:	ND<50	50	98/103	56-117	5%
Benzene:	ND<0.5	0.5	84/82	59-149	2%
Toluene:	ND<0.5	0.5	85/85	59-149	0%
Ethyl Benzene:	ND<0.5	0.5	90/90	59-149	0%
Total Xylenes:	ND<0.5	0.5	91/91	59-149	0%

Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- ug/L = Parts per billion (ppb)
- QC File No. 92883

*Abdul Salim* 11/1/94  
 Senior Chemist  
 Account Manager

Certified Laboratories

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# Superior Precision Analytical, Inc.

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SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001  
Reported 01-November-1994

TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
BY EPA METHOD 8015 MODIFIED

RECEIVED  
NOV - 4 1994

Chronology

Laboratory Number 92891

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
MW-4	10/26/94	10/26/94	10/26/94	10/26/94		1





SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001  
Reported 01-November-1994

---

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

Laboratory Number	Sample Identification	Matrix
92891- 1	MW-4	Water

---

RESULTS OF ANALYSIS  
Laboratory Number: 92891- 1

---

Diesel: ND<50  
Concentration: ug/L



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## TOTAL PETROLEUM HYDROCARBONS AS DIESEL Quality Assurance and Control Data - Water

Laboratory Number 92891

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Diesel:	ND<50	50	117/108	50-146	8%

### Definitions:

- ND = Not Detected
- RPD = Relative Percent Difference
- RL = Reporting Limit
- ug/L = Parts per billion (ppb)
- QC File No. 92891

*Atsueh. Sub* 11/2/94  
 Senior Chemist  
 Account Manager



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001  
Reported 29-October-1994

## VOLATILE PETROLEUM HYDROCARBONS

Sample preparation by Purge and Trap (EPA SW-846 method 5030). Gasoline analysis by SW-846 method 8015 modified. Gasoline range quantified as all compounds between C6 and C10. Benzene, Toluene, Ethyl Benzene, and Xylenes analyses by EPA SW-846 method 8020.

Chronology

Laboratory Number 92891

Identification      Sampled      Received      Extracted      Analyzed      Run #      Lab #

MW-4                      10/26/94      10/26/94      10/27/94      10/27/94                      1



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

SECOR - CONCORD OFFICE  
Attn: JEAN CHRISTENSEN

Project 70059-001  
Reported 29-October-1994

## VOLATILE PETROLEUM HYDROCARBONS

Laboratory Number	Sample Identification	Matrix
92891- 1	MW-4	Water

### RESULTS OF ANALYSIS

Laboratory Number: 92891- 1

Gasoline:	ND<50
Benzene:	ND<0.5
Toluene:	ND<0.5
Ethyl Benzene:	ND<0.5
Total Xylenes:	ND<0.5

Concentration: ug/L

-- Surrogate % Recoveries --  
Trifluorotoluene (SS): 114

Certified Laboratories

825 Arnold Dr., Suite 114  
Martinez, California 94553  
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I  
San Francisco, California 94124  
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24  
Seattle, Washington 98108  
(206) 763-2992 / fax (206) 763-8429



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

## VOLATILE PETROLEUM HYDROCARBONS Quality Assurance and Control Data - Water

Laboratory Number 92891

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Gasoline:	ND<50	50	107/101	56-117	6%
Benzene:	ND<0.5	0.5	80/80	59-149	0%
Toluene:	ND<0.5	0.5	92/91	59-149	1%
Ethyl Benzene:	ND<0.5	0.5	96/95	59-149	1%
Total Xylenes:	ND<0.5	0.5	97/97	59-149	0%

### Definitions:

ND = Not Detected

RPD = Relative Percent Difference

RL = Reporting Limit

ug/L = Parts per billion (ppb)

QC File No. 92891

*Atsuh. Sah* 11/2/94  
 Senior Chemist  
 Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114  
 Martinez, California 94553  
 (510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I  
 San Francisco, California 94124  
 (415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24  
 Seattle, Washington 98108  
 (206) 763-2992 / fax (206) 763-8429

92883

Chain-of-Custody Number: A

# SEACOR Chain-of-Custody Record

Address 1390 Willow Pass Rd Ste 3600  
Concord CA 94520  
(510) 686-9780

Project # 70059-001-01 Task # \_\_\_\_\_  
 Project Manager Jean Christensen  
 Laboratory Superior  
 Turn-around time: Std.

## Analysis Request

Sampler's Name: Bob Robitaille  
 Sampler's Signature: [Signature]

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
HP1-11.5	Oct 24/94	1145	Soil	X	X											1
HP2-13	↓	1335	Soil												Hold	1
HP2-13.5		1340	Soil	X	X											1
HP-2		1400	water	X	X											4
HP3-7.5		15:45	soil	X	X											1
HP-3		1600	water	X	X											4
HP-1		1615	water	X	X											4
MW4-8		Oct 25/94	1115	Soil	X	X										1
MW4-11.5	↓	1125	soil	X	X										1	

Place initials on all samples and containers  
 All samples and containers OK

Special Instructions/Comments:

Relinquished by:  
 Sign [Signature]  
 Print Bob Robitaille  
 Company SEACOR  
 Time 15:40 Date 10/25/94

Received by:  
 Sign [Signature]  
 Print Suman  
 Company Superior  
 Time 3:45 Date 10/25

Sample Receipt  
 Total no. of containers \_\_\_\_\_  
 Chain of custody seals: \_\_\_\_\_  
 Rec'd good condition/cold: \_\_\_\_\_  
 Conforms to record: \_\_\_\_\_

Relinquished by:  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Received by:  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Client: \_\_\_\_\_  
 Client Contact: \_\_\_\_\_  
 Client Phone Number: \_\_\_\_\_

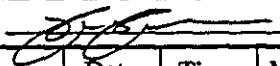
92891

Chain-of-Custody Number: A 70059-2

### SEACOR Chain-of-Custody Record

Address  
 1390 Willow Pass Rd. Ste 360  
 Concord, CA 94520  
 (510) 686-9780


Project # 70059-001 Task # \_\_\_\_\_  
 Project Manager Jean Christensen  
 Laboratory Superior  
 Turn-around time: Std.

Sampler's Name: Bob Robitaille  
 Sampler's Signature: 

#### Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX	TPHd	TPH 418.1	Aromatic Volatiles	Volatile Organics	Halogenated Volatiles	Semi-volatile Organics	Pesticides/PCB's	Total Lead	Priority Pollutant	TCLP Metals	Comments/Instructions	Number of Containers
				8015 (modified)/8020	8015 (modified)	602/8020	624/8240 (GC/MS)	601/8010	625/8270 (GC/MS)	608/8080	7421	Metals (13)				
MW-4	10/26/94	10:55	water	X	X										yes yes yes None 350C	4


Special Instructions/Comments:

Relinquished by:  
 Sign   
 Print Bob Robitaille  
 Company SEACOR  
 Time 12:20 Date 10/26/94

Received by:  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Sample Receipt  
 Total no. of containers \_\_\_\_\_  
 Chain of custody seals: \_\_\_\_\_  
 Rec'd good condition/cold: \_\_\_\_\_  
 Conforms to record: \_\_\_\_\_

Relinquished by:  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

Received by:   
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time 12:24 pm Date 10/26/94

Client: \_\_\_\_\_  
 Client Contact: \_\_\_\_\_  
 Client Phone Number: \_\_\_\_\_