

#### 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:
SECOR International Incorporated
1390 Willow Pass Road
Suite 360
Concord, California 94520

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. Rinsate 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

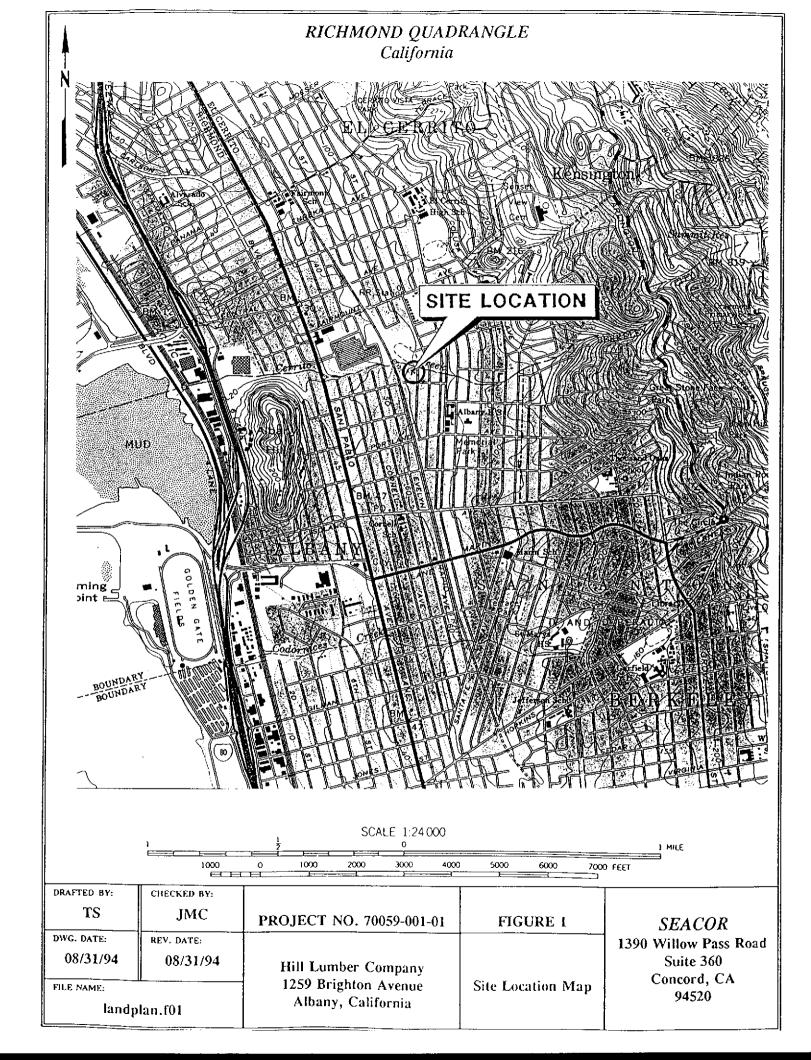
On October 24, and 25, 1994, four soil borings were drilled at the former Hill Lumber Company in order to collect soil and groundwater samples for laboratory analysis.

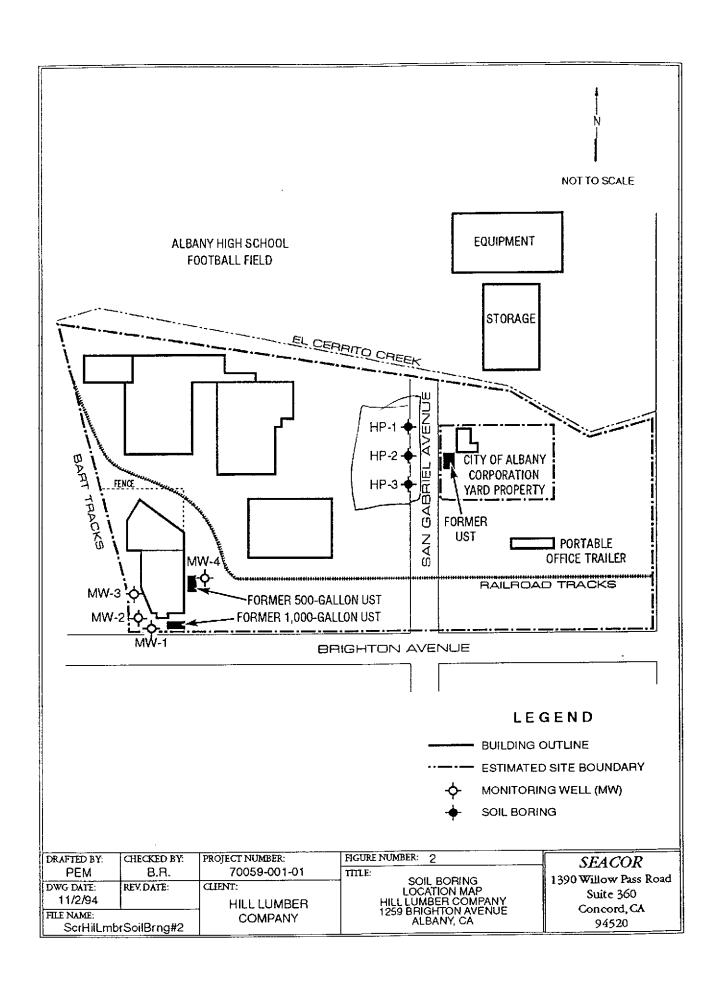
Three borings (HP-1, HP-2, HP-3) were drilled across San Gabriel Avenue from the City of Albany Corporation yard. The intent of these borings was to determine if hydrocarbon impacted groundwater associated with a gasoline UST formerly located on the western edge of City of Albany Corporation yard had 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.

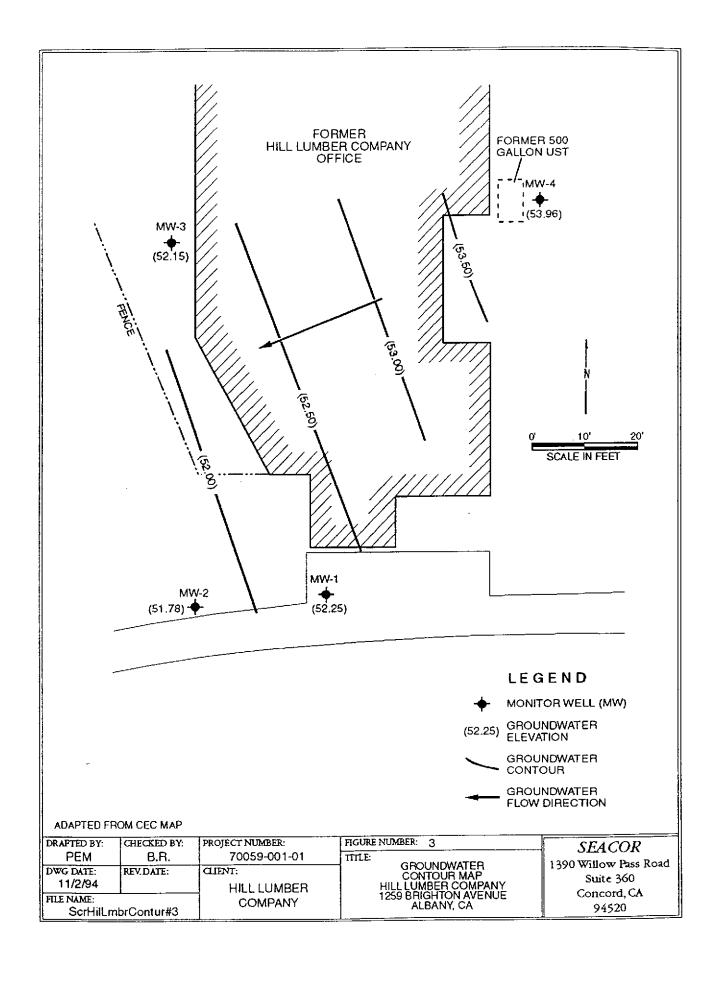
One boring (MW-4) was drilled in the vicinity of a 500-gallon gasoline UST formerly located beside the Hill Lumber Company office building. The boring was placed within ten feet of the former UST and converted to a groundwater monitor well. The location of the monitor well also allowed for the verification 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.







### TABLE 1 LABORATORY ANALYTICAL RESULTS SOIL

$\sim$	-4-	T	4004
()	CIO	ner	1994

ı	Octobel 1334												
Sample	Depth	THPd	TPHg	Benzene	Toluene	Ethyl-	Total						
Number	(feet)					benzene	Xylenes						
							<b>-</b>						
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						
1 1 Z-13.3	10.0	10	~1	~0.003	<b>~0.003</b>	<b>~0.00</b> 3	<b>\0.003</b>						
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						
	44.5		_										
MW4-11.5	11.5	<10	<1	<0.005	<0.005	<0.005	<0.005						
							1						

Notes:

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

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

	October 1994												
Sample	THPd	TPHg	Benzene	Toluene	Ethyl-	Total							
Number		_			benzene	Xylenes							
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 <sup>°</sup>	<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

Project:							259 Brighton Ave. Albany, CA	Log	of Boring/Monitoring Well:	
Boring Local							W of UST   Project No.: 70059-001-01		HP-1	
Subcontracto	or and	Equipm	ent:	BAYL	AND	CME 75,		ļ		
Sampling Me	thod: (	CONTI	NUO	us s	PUT	SPOON	Monitoring Device: PID/OVM	Come	ments:	
Start Date/	Time:	0/24	<u>/94</u>	//10	30		Finish Date/Time: 10/24/94//1230	1		
First Water	(bgs): }	NA					Stabilized Water Level (bgs): NA	<u> </u>		
Sample interval Recovery (Inches)	PID (ppm)	Depth (Feet)	Samples	USCS Symbol	Water Level	Surface Eli	evation: NA Casing Top Elevation: NA  LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment, Well Construction Deta		
HAND AUGERED	0	1 - 2 - 3 - 1				BASERO BLACK modero (0,5,25, THIN GR	RAVELLY CLAY WITH SAND (CL)			
18"/18"   2	5 0	5 —			:	BROWN modera with sill	(10YR 5/3) FINE SANDY CLAY (CL) te hard, dry, very fine well sorted sand, t, trace small gravel, very dark brown and h brown mottled (3,32,10,55)	ŀ	-	
8"/12" 17 0 6 -						yellowisi	h brown mottled (3,32,10,55)	[	- Backfilled with	
18"/14"   20	20 0 7 - G						with abundant medium grayels, angular to		- 11001 0011011	
18"/18"   2!						well rou (15,20,7	with abundant medium gravels, angular to inded, >2° dia. max., with fine to coarse so 70,55)	na [	-	
18"/15"   18	/15   18   0   -					Grades	moist on gravel surfaces	f	- - -	
18"/4" 3	2 0	12-				End of	Boring at 13'. Drove Hydropunch Sampler to	17'.		
		14 15 16 17 18 19 120 121 122 125 126 129 129 130 1								

Reviewed By: Nov 4, 94

Project:								og of Boring/Monitoring Well:
Boring La			_				San Gabriel Project No.: 70059-001-01	HP-2
				_			CME 75, 7" HSA Logged By: ROBITAILLE	
Sampling							31 0011	Comments:
Start Dat						45	Finish Date/Time: 10/24/94//1400	
First Wat	er (bg	s): 1,	3.5 F	EET			Stabilized Water Level (bgs): NA	
Sample Interval Recovery (Inches)	Blows/Foot	(wad) Old	Depth (Feet)	Somples	USCS Symbol	Water Level	Surface Elevation: NA Casing Top Elevation: NA  LITHOLOGIC DESCRIPTION  (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Detai
HAND AUGERED		0	0				GRAVEL BASE FILL (GRAVEL, SAND, SILT, CLAY, DRY, NO ODOR) BLACK (10YR 2.5/1.5) CLAY WITH SILT (CL) moderate soft, trace poorly sorted sand (0,5,20,75)	
18"/14"	17	0	4 -				GRAVELLY CLAY, BLACK (CL) moderate hard, dry (20,5,15,60)	_{
18"/18"	22	0	5  6				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)	Backfilled with
18*/14*	12	0	7-				Grades with abundant gravel	Neat Cement
18"/16"	19	0	9 —				YELLOWISH BROWN (10YR 5/4) GRAVELLY SANDY CLAY (CL) moderate hard, dry, black and yellowish brown mottled, interbedded (20,30,10,40)	+
18"/12"	25	0	10-				brown mottled, interbedded (20,30,10,40)	E
18"/14"	31	0	12-					
18"/14"	33	0	13-	×		<u>\forall \forall \fora</u>	Discovered water at 1345 hrs. in gravelly sand lens.	
			15-				End of Boring at 14'. Drove Hydropunch Sampler to 1	<i>r</i> .
			16-					E
			17-					<b>+</b>
			18					<u> </u>
			19—					<u> </u>
		-	-					<u></u>
			20-					-
			21 —					-  -
			22-					
			23-					<b>-</b>
Ţ			24-					<u> </u>
			-					-
			25-					F
			26-					F
			27-					<u> </u>
			28-					F
			29					<u> </u>
			-					<b>-</b>
			30-		·			

Reviewed By:

Date: <u>Nov 4,94</u>

Project:	FC	ORMER	R HI	ILL L	UMBE	R CO.—1259 Brighton Ave. Albany, CA	Log of Boring/Manitoring Well:
Boring Locatio	n: W	of S	an (	Gabr	iel, S	W of Former UST Project No.: 70059-001-01	HP-3
Subcontractor	and Eq	quipmer	nt: B	BAYL	AND	CME 75, 7" HSA Logged By: ROBITAILLE	
Sampling Meth							Comments:
Start Date/Tin				//15	25	Finish Date/Time: 10/24/94//1550	
First Water (b	gs): 7.	6 FEE	<u>et</u>			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  LITHOLOGIC DESCRIPTION  (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Detail
18"/10" 8 18"/14" 17		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 15 1 16 1 17 1 18 1 19 20 21 22 23 24 25 26 27 28 29 1				GRAVEL BASE FILL (GRAVEL, SAND, SILT, CLAY, DRY)  BLACK (10YR 2.5/1.5) SILTY CLAY (CL) moderate soft, dry, trace poorly sorted sand (0,5,25,70)  YELLOWISH BROWN (10YR 5/4) GRAVELLY SANDY CL (CL) moderate hard, dry, poorly sorted fine to coar sand and gravel (15,30,15,40)  Found water 1550 hrs.  YELLOWISH BROWN, GRAVELLY CLAYEY SAND (SC) medium loose, wet (20,40,10,30)  End of Boring at 8'. Drove Hydropunch Sampler to	

Reviewed By.

. - . -

Date: Nov. 4, 94

		: W	Side	of	Bldg	. Bes	R CO.—1259 Brighton Ave. Albany, CA ide Former 500 Gal. UST   Project No.: 70059—001—01	Log of Boring/Monitoring Well:
							CME 75, 8" HSA Logged By. ROBITAILLE	Comments:
							SARREL Monitoring Device: PID/OVM Finish Date/Time: 10/25/94//1135	Oyimana.
Start Dat		~				J <u>U</u>	Stabilized Water Level (bgs): 8.1 FEET	
First Wat	er (bg	s):   ]	2.0 F	ŁŁI				TT
Sample Intervo Recovery (Feet)	Blows/Foot	PIO (ppm)	Depth (Feet)	Samples	USCS Symbol	Water Level	Surface Elevation: NA Cosing Top Elevation: 62.01 I  LITHOLOGIC DESCRIPTION  (color, grain size, consistency, moisture, ather)	Boring Abandonment, Well Construction Deta
ERED			0 -				ASPHALT/CONCRETE	-2"# Blom
HAND AUGERED		0	3 - 4 -				BLACK (10YR 2/1) SILTY CLAY (CL) moderate soft, moist, trace fine sand (0,5,30,65)	<del> </del>
5'/5'			5 -	$\overline{}$			Grades with light gray mottling, dry  GRAYISH BROWN (2.5Y 5/2) SANDY CLAY (CL) moderate hard, dry, poorly sorted fine to coarse so	and,
-1 (-1		0	9 -				trace small gravel, no product odor (3,17,10,70) GRAYISH BROWN, GRAVELLY CLAY (CL) moderate hard, dry, with poorly sorted sand, trace silt, poorly sorted gravel to >2" dia. (15,10,5,60) Grades yellowish brown (10YR 5/5) increasing grave	Pellets
5'/5'		0	11 -	×		<u>₹</u>	and sand (20,20,10,50) Grades moist Found water 1135 hrs. YELLOWISH BROWN (10YR 5/4) INTERBEDDED GRAVE SAND WITH CLAY, GRAVELLY CLAY AND CLAYEY SAN	F2/12 Lonesto Sand P
5'/3'		0	15-		X		(SW/CL) hard to loose, wet (20,40,10,30)  YELLOWISH BROWN (10YR 5/4) GRAVELLY SAND (SV moderate loose, wet, very poorly sorted fine to very	'Y ├-   Screen
		0	17-		1//		coarse sand, very poorly sorted, small to large gra with cobbles (30,60,5,5) YELLOWISH BROWN, CLAYEY GRAVEL (GC) dense, we moist, very poorly sorted, small to large gravel with	et to
			20 - 21 - 22 - 23 - 25 - 26 - 28 - 29 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 3				cobbles (60,10,0,30) End of Boring 18.5'	held with Screws

Reviewed By: Nov 4, 94

n=== 1 of 1

## SEACOR WATER SAMPLE FIELD DATA SHEET

_		,		1D: <u>MW-4</u>			
PROJECT NO: 70059-00			SAMPLE	1D: MW-4			
PURGED BY: BX	<del></del>	•	LOCATI	ME: Albery Un. School D ON: 1259 Brighton Aue, All			
SAMPLED BY:			200,111	·			
TYPE: Groundwater X	Surface Water	Treatment Efflu	ent	Other			
CASING DIAMETER (inches): 2 <u>X</u>	3	4	4.5	6Other			
CASING ELEVATION: (feet/MSL): DEPTH TO WATER (feet): DEPTH OF WELL (feet):	8.05 17.88 (9.	CALCULATE	CASING (gal D PURGE (ga RGE VOL (ga	al) _5.1			
DATE PURGED: 10-26-94  DATE SAMPLED: 10-26-94	Start (2400)	Hr) <u>10:10</u> Hr) <u>10:55</u>	End (2	400 Hr.)			
FIELD QC SAMPLES COLLECTED A	AT THIS WELL (i.e. !	FB-1, X-DUP-1):	None				
	FIELD MEA	SUREMENTS					
TIME VOLUME PH (2400 Hr) (gal) (units)	E.C. («mbos/cm@25°C)		COLOR (visual)	TURBIDITY (NTU)			
10:16 1.5 10.4 10:21 2.5 10.2 10:24 4 10.3 10:30 5 10.2 10:34 5.5 10.2	80% 758 740 735 732	65.7 -67.7 -68.3 -68.4 -68.2	bra	mod 			
	OLOR, COBALT (0-100			Clear Cloudy Yellow Brown			
PURGING EQUIPMEN		SA	MPLING FOU	- ,			
2" Bladder Pump Bailer Contribugal Pump Bailer	Tctlon®) (PVC) (Stainless Stoet)	SAMPLING EQUIPMENT  2' Bladder Pump Bailer (Telloa®)  DDL Sampler Bailer (PVC/disposable)  Submersible Pump X Bailer (Stainless Steel)  Well Wizard <sup>TM</sup> Dedicated  Other:					
WELL INTEGRITY: OK (A REMARKS: First sample en and developed during	ewwell) vent at this installation	LOCK#: D s well. Mw-4 n prior to pla	blphin#1600 I was insta- cing sans	lled yesterday tary seat.			
SIGNATURE:			Page /	of /			

#### HYDROLOGIC DATA SHEET

DATE: Oct 26,94 PROJECT: ALSD / Hill Lumber PROJECT # 20059-001-01

EVENT: 1st MW-4 event

SAMPLER: Robitaille

EVENT: 17 MW-4	event	SAMPLER: Kob, Faille							
			М	EASUREM	IENT				
WELL OR LOCATION	TIME	TOC	DTW	DTB	PT	ELEV	COMMENTS		
MW-1	09:37	61.77	9.52			52.25			
мш-2	09:42	61.37	09.59			51.78			
mω-3	09.45	60.47	8.32			52.15			
mw-4	09:33	62.01	8.05	17.88		53.96			
		:					• 2		
							· ·		
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							,		
			·						
CODES. TOC TOD	1	1	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 68 Eas		1 1			

CODES: TOC - TOP OF CASING (FEET, RELATIVE TO MEAN SEA LEVEL)

DTW - DEPTH TO WATER (FEET)

DTP - DEPTH TO PRODUCT (FEET)

PT - PRODUCT THICKNESS (FEET) ELEV - GROUNDWATER ELEVATION (FEET, RELATIVE TO MEAN SEA LEVEL)

DTB - Depth to bottom from Toc



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 HP2-13.5 HP-2 HP3-7.5 HP-3	10/24/94 10/24/94 10/24/94	10/25/94 10/25/94 10/25/94 10/25/94 10/25/94	10/26/94 10/26/94 10/26/94 10/26/94 10/26/94	10/26/94 10/26/94 10/26/94 10/26/94 10/27/94		1 3 4 5
HP-1 MW4-8 MW4-11.5	10/24/94	10/25/94 10/25/94 10/25/94	10/26/94 10/26/94 10/26/94	10/27/94 10/26/94 10/26/94		7 8 9

Page 1 of Certified Laboratories -



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	Sample Identification							
92883 - 1 92883 - 3 92883 - 4 92883 - 5 92883 - 6 92883 - 7 92883 - 8 92883 - 9	HP1-11. HP2-13. HP-2 HP3-7.5 HP-3 HP-1 MW4-8 MW4-11.	5	Soil Soil Water Soil Water Water Soil Soil						
Laboratory Number:		TS OF ANAL 92883- 3		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						

Page 2 of 4

Certified Laboratories -



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

ng/Kg = Parts per million (ppm)

QC File No. 92883

Page 3 of Certified Laboratories

825 Arnold Dr., Suite 114 Martinez, California 94553 10101 220 1012 / Fay (010) 220 1024

1555 Burke St., Unit I San Francisco, California 94124 1/151 //7 7/01 / fav //151 071 7177

309 S. Cloverdale St., Suite B-24 Seattle, Washington 98108 17041 742 7007 / FOV 17041 743-8479



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:

ID = Not Detected

₹PD = Relative Percent Difference

RL = Reporting Limit

ig/L = Parts per billion (ppb)

¿C File No. 92883

Senior Chemist Account Manager

Page 4 of 4 · Certified Laboratories

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 HP2-13.5 HP-2 HP3-7.5 HP-3	10/24/94 10/24/94 10/24/94	10/25/94 10/25/94 10/25/94 10/25/94 10/25/94	11/01/94 10/31/94 10/27/94 10/31/94 10/27/94	11/01/94 10/31/94 10/27/94 10/31/94 10/27/94		1 3 4 5 6
HP-1 MW4-8 MW4-11.5	10/24/94	10/25/94 10/25/94 10/25/94	10/27/94 10/31/94 10/31/94	10/27/94 10/31/94 10/31/94		7 8 9



SECOR - CONCORD OFFICE Attn: JEAN CHRISTENSEN

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

#### VOLATILE PETROLEUM HYDROCARBONS

Laboratory Number	Sample I	dentificat	ion	Ma	atrix								
92883 - 1 92883 - 3 92883 - 4 92883 - 5 92883 - 6 92883 - 7 92883 - 8 92883 - 9	2883-3 HP2-13.5 Soil 2883-4 HP-2 Water 2883-5 HP3-7.5 Soil 2883-6 HP-3 Water 2883-7 HP-1 Water 2883-8 MW4-8 Soil												
	DECIH T	S OF ANALY	/CTC										
Laboratory Number:				92883- 5	92883- 6								
Gasoline: Benzene: Toluene: Ethyl Benzene: Total Xylenes: Concentration: Surrogate % Recover Trifluorotoluene (SS):		ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5	ND<1 ND<.005 ND<.005 ND<.005 ND<.005 mg/kg										
Laboratory Number: 9	92883- 7 9	92883- 8	92883- 9										
Gasoline: Benzene: Toluene: Ethyl Benzene: Total Xylenes: Concentration:	ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5	ND<1 ND<.005 ND<.005 ND<.005 ND<.005											
Surrogate % Recover Trifluorotoluene (SS):	ies	115	116										

- Pardified Laboratorias -

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229 1512 7 fov (510) 229 1524

1555 Burke St., Unit I San Francisco, California 94124

309 S. Cloverdale St., Suite B-24 Seattle, Washington 98108



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

Laboratory Number 92883

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

efinitions:

D = Not Detected

RPD = Relative Percent Difference

L = Reporting Limit

ig/kg = Parts per million (ppm)

QC File No. 92883

Pertified Laboratories -



## Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

# VOLATILE PETROLEUM HYDROCARBONS Quality Assurance and Control Data - Water

#### Laboratory Number 92883

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)	
Fasoline:	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%	
Ithyl 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

ag/L = Parts per billion (ppb)

QC File No. 92883

Senior Chemist Account Manager

Perded Laboratories -

825 Arnold Dr., Suite 114
Martinez, California 94553

1555 Burke St., Unit I San Francisco, California 94124 309 S. Cloverdale St., Suite B-24 Seattle, Washington 98108



SECOR - CONCORD OFFICE Attn: JEAN CHRISTENSEN Project 70059-001 Reported 01-November-1994

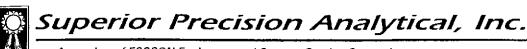
TOTAL PETROLEUM HYDROCARBONS AS DIESEL BY EPA METHOD 8015 MODIFIED

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

Page 1 of 3

Certified Laboratories -



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

Page 2 of 3 Certified Laboratories



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

Laboratory Number 92891

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

Definitions:

ID = Not Detected

PD = Relative Percent Difference

RL = Reporting Limit

ig/L = Parts per billion (ppb)

C File No. 92891

Senior Chemist Account Manager

Page 3 of 3 Certified Laboratories



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.

MW - 4	10/26/94	10/26/94	10/27/94	10/27/94		1
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
Chronology				Laboratory	Number	92891

Page 1 of 3

Certified Laboratories -



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



## 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

Senior Chemist Account Manager

Beatled Faporatories -

# **SEACOR Chain-of-Custody Record**

# 1390 Willow Pars Rd. Ste 360
# Concord CA 94520
(510) 686-9780

Project # <u>2005 1-001-</u>		Analysis Request																			
Project Manager <u>Jean</u> Laboratory <u>Superior</u> Turn-around time: <u>St</u>	в.			xd)/8020	- <del>Q</del>		Volatiles	nics 2/MS)	Volatiles	Organics 2/MS)	æ's		tant						Control	. ,	Number of Containers
Sampler's Signature:	Robits	aille_		TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Vol 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	i-volatile (	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	P Metals					Comm- Instruc		umber of
Sample ID	Date	Time	Matrix	£ <u>8</u>	7. 108	TP	A.r.c	‱ 42	Haly 601	Sem 625,	F. 80	Tota 7421	Prio Met	TCLP							Ź
HP1-11.5	Oct. 2\$194	1145	5011	X	X																1
HP2-18	<u>                                     </u>	1335	501			<u> </u>	<u>                                     </u>	ļ ·				and makings by	2			C	1	Holi	0		1
HP2-135	15 '	1340	501]	X	x		<u> </u>	ļ'	<u> </u>			jaesa ,		: =	13 ic		20				
<u>HP-2</u>	<del>                                     </del>	1400	water	X	×	<u> </u>	<u>                                     </u>	<u> </u> '	<u> </u>	<u>                                     </u>	1 3		<u> </u>	) co:	. Latin	°13		-			4
HP3-7.5		15:45	5011	X	×	<u> </u>				<u> </u>				1.4	3.1.						1
HP-3	1/	1600	water	×	X	<u> </u>		<u>'</u>				3.5	5 87, 15	( )	i jiC.	Attu	Ž	JC.			4
HP-1	1 1	1615	water	X	X	<u> </u>			<u> </u>	<u> </u>			2:3.479								4
MW4-8	0ct2594	1115	50:1	X	×	<u> </u>			<u>                                     </u>												
mw4-11.5	[ 2 ]	1125	501)	X	X	<u> </u>	<u> </u>											and the second of		pr. 1747	
											<u> </u>										
Special Instructions/Commen	its:			ı	nquisi >	ned by	y: 		•			Receiv Sign	ved by		mei	11			Sarr	iple Recei	pt
				Sign Prin		35	2 120	bita	aille	<u> </u>		oign Print			2m		<del></del>			otal no. of contain	
				Con	npany			<u>C04</u>			_  <	Comp	oany	<u>ک</u>	4					nain of custody se good condition/co	-
				Tim	e <u>/</u>	<u>5740</u>	<u>&gt;</u>	Dat	te <u>//</u>	<u> 2/25/</u>	举	Гime	314	45		Date		0/25		Conforms to reco	
					nquish	ned b	y:				1	Recei	ved by	<i>y</i> :					<u>, , , , , , , , , , , , , , , , , , , </u>		
				Sign						-		Sign					·		Client:		
			,	Prin	ıt							Print						[			

Date

Company

Date

Time\_

Company

Time .

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

Date 10 / 25 / 94 Page 1 of 1

Client Contact:

## **SEACOR Chain-of-Custody Record**

1390 Willow Pars RD. Ste 360
E Concord, CA 94520
(510) 686-9780

Project # 20059-00/												Ar	alys	is R	eque	est		<del></del>	· · · · · · · · · · · · · · · · · · ·	
			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
mw-4	10/26/94	10:55		X	X					0, 0		, ,					-	<u>                                     </u>		4
	13237.7	10.123			( ,									!	<b>V</b> <			-		- <del>  T</del>
				<u> </u>												45_	3	کی ح		+
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Special Instructions/Commen	ts:				nquish	ned by	y:	_					ed by	:	<u> </u>	l	ــــــــــــــــــــــــــــــــــــــ		Sample Receipt	<u> </u>
				Sign Prin	-	00	Rob	tai	lle.	•		Sign Print							Total no. of containers	
				1	npany			COR				Comp						<del></del>	Chain of custody seals:	
					e		.0_	Dat	e <u>//</u>	126/	94	Time				Date		· · · · · · · · · · · · · · · · · · ·	Rec'd good condition/cold:  Conforms to record:	
				Sign	Relinquished by: Sign Print							Kecei Sign Print	ved by	W.	1 6	Çm	Vie	-	Client:	
		Time Date Time 1224 Par 12/4/91									Client Contact:  Client Phone Number:									
														V			Dat	te <u>10</u>	/ <u>26</u> / <u>94</u> Page <u>1</u> o	of

## APPENDIX C

Laboratory Analytical Reports and Chain-of-Custody Manifests

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 HP2-13.5 HP-2 HP3-7.5 HP-3	10/24/94 10/24/94 10/24/94	10/25/94 10/25/94 10/25/94 10/25/94 10/25/94	10/26/94 10/26/94 10/26/94 10/26/94 10/26/94	10/26/94 10/26/94 10/26/94 10/26/94 10/27/94		1 3 4 5 6
HP-1 MW4-8 MW4-11.5	10/24/94	10/25/94 10/25/94 10/25/94	10/26/94 10/26/94 10/26/94	10/27/94 10/26/94 10/26/94		7 8 9

Page 1 of 4 Certified Laboratories